BULLETIN OF

WELLESLEY COLLEGE

CATALOGUE NUMBER 1963-1964

WELLESLEY · MASSACHUSETTS

CATALOGUE NUMBER

BULLETIN OF WELLESLEY COLLEGE

OCTOBER 30, 1963

Bulletins published six times a year by Wellesley College, Wellesley, Massachusetts. January, one; April, one; October, two; November, two. Second-Class postage paid at Boston, Massachusetts and at additional mailing offices.

Volume 53 Number 2

TABLE OF CONTENTS

VISITORS; CORRESPONDENCE 5

CALENDAR 6

BOARD OF TRUSTEES 7

FACULTY AND ADMINISTRATION 8

THE COLLEGE 20

THE CURRICULUM 24

Requirements for the B.A. Degree 24

Research or Independent Study 28

Honors and Academic Distinctions 28

General Information 29
Course Examinations, Special Examinations, Advanced Placement, Use of the Summer Vacation, Summer Internships, Junior Year Abroad

Preparation for Graduate Study 31
College Teaching and Research, Other Professions, Teaching in Schools, Medical School, Hospital and Public Health Work, Civil Service

Graduate Fellowships 33

Requirements for the M.A. Degree 33

COURSES OF INSTRUCTION 35

Art 35
Astronomy 40
Biblical History 41
Botany and Bacteriology . 44
Chemistry 47
Classical Archeology 49
Economics 50
Education 53
English 55
French 60
Geography 64
Geology 66
German 68
Greek 70
History 72
Interdepartmental Courses .. 77
Italian 78
Latin 80
Mathematics 81
Music 83
Philosophy 86
Physical Education 88
Physics 90
Political Science 92
Psychology 95
Russian 98
Sociology and Anthropology 99
Spanish 102
Speech 104
Zoology and Physiology 105

ADMISSION 109
Of Freshmen 109
Of Transfer Students 113
Of Foreign Students 114
Of Graduate Students 114

GENERAL INFORMATION AND REGULATIONS 115
Registration 115
Freshman Orientation 115
Advising of Students 115
Academic Standards 115
Residential Life 116
Health Provisions 117
Withdrawal and Exclusion 118
Employment Opportunities 118
Financial Aid 119

FEES AND EXPENSES 123

BUILDINGS AND EQUIPMENT 125

STATISTICAL SUMMARY OF STUDENTS 129

ALUMNAE INTERESTS 130
Alumnae Association Officers: National Development Fund Committee; Acquaintanceship Chairmen

INDEX 136

VISITORS

Visitors to the College are welcome and will find the administrative offices in Green Hall open Monday through Friday from 8:30 A.M. to 5:00 P.M. when college is in session, otherwise to 4:30 P.M.

Secondary school students and their parents who wish an interview with an officer of the Board of Admission are advised to write well in advance to arrange an appointment.

CORRESPONDENCE

The post office address is Wellesley College, Wellesley 81, Massachusetts. Inquiries concerning the following topics should be sent to:

THE PRESIDENT
General interests of the College

THE DEAN OF THE FACULTY
Academic policies and regulations

THE DEAN OF STUDENTS; CLASS DEANS
Individual students; applications for readmission

THE BOARD OF ADMISSION
Admission of undergraduate students

THE DIRECTOR OF RESIDENCE
Residence halls and social regulations

THE RECORDER
Requests for transcripts of records

THE SECRETARY TO THE COMMITTEE ON SCHOLARSHIPS
Scholarships

THE DIRECTOR OF THE PLACEMENT OFFICE
Alumnae and undergraduate employment

THE INFORMATION BUREAU
Requests for Catalogues

THE CHAIRMAN OF THE COMMITTEE ON GRADUATE INSTRUCTION
Admission of graduate students

THE CONTROLLER
Payment of college bills

THE EXECUTIVE SECRETARY OF THE ALUMNAE ASSOCIATION
Alumnae affairs

CALENDAR

Academic Year 1963-64

First Semester

Registration of new students, 9 A.M. to 10:30 P.M.
Sunday, September 22

Registration closes for all other students, 11:00 P.M.
Tuesday, September 24

Classes begin ..... Thursday, September 26

Thanksgiving recess
- after classes ..... Wednesday, November 27
- to 1:00 A.M. ..... Monday, December 2

Christmas recess
- after classes ..... Tuesday, December 17
- to 1:00 A.M. ..... Monday, January 6

Examinations
- from ..... Thursday, January 30
- through ..... Wednesday, February 5

Second Semester

Classes begin ..... Monday, February 10

Spring recess
- after classes ..... Friday, March 20
- to 1:00 A.M. ..... Monday, March 30

Examinations
- from ..... Thursday, May 28
- through ..... Wednesday, June 3

Commencement ..... Monday, June 8

BOARD OF TRUSTEES

JOHN R. QUARLES, B.A., M.A., LL.B. . . . . *Wellesley, Mass.*
Chairman of the Board

O. KELLEY ANDERSON, B.A., M.B.A. . . . . *Boston, Mass.*
Vice Chairman

EDWARD LIVINGSTON BIGELOW, B.A. . . . . *Chestnut Hill, Mass.*

ELISABETH LUCE MOORE, B.A., LITT.D. . . . . *New York, N.Y.*

EDWARD A. WEEKS, JR., B.S., LITT.D., LL.D. . . . . *Boston, Mass.*

JAMES LAWRENCE, JR., B.A. . . . . *Brookline, Mass.*

ELEANOR WALLACE ALLEN, B.A. . . . . *Boston, Mass.*

KATHARINE TIMBERMAN WRIGHT, B.A. . . . . *Columbus, Ohio*

ALEXANDER COCHRANE FORBES, B.A. . . . . *Needham, Mass.*

BYRON KAUFFMAN ELLIOTT, B.A., LL.B., SC.D., LL.D. . . *Needham, Mass.*

ELIZABETH KING MOREY, B.A., M.A. . . . . *New York, N.Y.*

MARY JEWETT GAISER, B.A., LL.D. . . . . *Spokane, Wash.*

ROBERT GREGG STONE . . . . . *Dedham, Mass.*

CAROLYN BARTEL LYON, B.A., M.A. . . . . *Claremont, Calif.*

ANNE LINEBERGER MACDONALD, B.A. . . . . *Washington, D.C.*

THEODORE P. FERRIS, B.A., B.D., D.D. . . . . *Boston, Mass.*

PRESTON DAVIS, LITT.D. . . . . *Columbus, Ohio*

JOHN KENNETH SPRING, B.A., M.B.A. . . . . *Concord, Mass.*

ROSE CLYMER RUMFORD, B.A. . . . . *Baltimore, Md.*

GERMAINE BRÉE, AGRÉGÉE DE L'UNIVERSITÉ, L.H.D., LITT.D. . *Madison, Wis.*

ERWIN DAIN CANHAM, B.A., M.A.(OXON), L.H.D., LITT.D., LL.D. *Boston, Mass.*

MARY SIME WEST, B.A. . . . . *New York, N.Y.*

GEORGE HOWELL KIDDER, B.N.S., LL.B. . . . . *South Lincoln, Mass.*

CARROLL MCCARTY GUNDERSEN, B.A. . . . . *La Crosse, Wis.*

MARGARET CLAPP, PH.D., LL.D., LITT.D., *ex officio* . . . *Wellesley, Mass.*
President of Wellesley College

HENRY AUSTIN WOOD, JR., B.A., M.B.A., *ex officio* . . . . *Boston, Mass*
Treasurer of Wellesley College

THE FACULTY AND ADMINISTRATION

EMERITUS PROFESSORS

Olive Dutcher Doggett, M.A., B.D. *Professor of Biblical History, Emeritus*
Laetitia Morris Snow, Ph.D. *Professor of Botany, Emeritus*
Alice Ida Perry Wood, Ph.D.
Associate Professor of English Literature, Emeritus
Seal Thompson, M.A. *Professor of Biblical History, Emeritus*
Bertha Monica Stearns, M.A. *Professor of English Literature, Emeritus*
Lilla Weed, M.A. *Associate Librarian, Emeritus*
Mary Cross Ewing, B.A. *Dean of Residence, Emeritus*
Louise Sherwood McDowell, Ph.D. *Professor of Physics, Emeritus*
Katy Boyd George, M.A. *Associate Professor of Biblical History, Emeritus*
John Charles Duncan, Ph.D.
Professor of Astronomy and Director of the Whitin Observatory, Emeritus
Helen Somersby French, Ph.D. *Professor of Chemistry, Emeritus*
Margaret Alger Hayden, Ph.D. *Professor of Zoology, Emeritus*
Ola Elizabeth Winslow, Ph.D. *Professor of English, Emeritus*
Ruth Elvira Clark, Litt.D. *Professor of French, Emeritus*
Thomas Hayes Procter, Ph.D. *Professor of Philosophy, Emeritus*
Gabriella Bosano, Dr. in Fil. Mod., Litt.D. *Professor of Italian, Emeritus*
Mary Bosworth Treudley, Ph.D. *Professor of Sociology, Emeritus*
Hedwig Kohn, Ph.D. *Professor of Physics, Emeritus*
Grace Elizabeth Howard, Ph.D. *Associate Professor of Botany, Emeritus*
Louise Pettibone Smith, Ph.D., Litt.D. *Professor of Biblical History, Emeritus*
Marianne Thalmann, Ph.D. *Professor of German, Emeritus*
Jeannette Barry Lane, Ph.B. *Associate Professor of Speech, Emeritus*
Edward Ely Curtis, Ph.D. *Professor of History, Emeritus*
Lucy Wilson, Ph.D. *Dean of Students and Professor of Physics, Emeritus*
Ruth Elliott, Ph.D. *Professor of Hygiene and Physical Education, Emeritus*
Emma Marshall Denkinger, Ph.D. *Associate Professor of English, Emeritus*
Anita Oyarzábal, M.A. *Associate Professor of Spanish, Emeritus*
Edna Heidbreder, Ph.D. *Professor of Psychology, Emeritus*
Helen Hull Law, Ph.D. *Professor of Greek, Emeritus*
Cécile de Banke *Associate Professor of Speech, Emeritus*
Ada Roberta Hall, Ph.D. *Associate Professor of Physiology, Emeritus*
Ada May Coe, M.A. *Professor of Spanish, Emeritus*
Angeline La Piana, Dr. in Lett. *Professor of Italian, Emeritus*
Evelyn Kendrick Wells, M.A. *Professor of English, Emeritus*
Leland Hamilton Jenks, Ph.D. *Professor of Sociology, Emeritus*
Louise Overacker, Ph.D. *Professor of Political Science, Emeritus*
Lawrence Smith, M.A. *Professor of Economics, Emeritus*
Michael Jacob Zigler, Ph.D. *Professor of Psychology, Emeritus*
Jorge Guillén, Catedrático de Universidad *Professor of Spanish, Emeritus*
Waclaw Jedrzejewicz *Associate Professor of Russian, Emeritus*
Dorothy Warner Dennis, B.A., Dip.E.U. *Professor of French, Emeritus*
Mary Eleanor Prentiss, M.A. *Associate Professor of English, Emeritus*
Katharine Canby Balderston, Ph.D. *Professor of English, Emeritus*
Marion Elizabeth Stark, Ph.D. *Professor of Mathematics, Emeritus*

ANDRÉE BRUEL, Dr. de l'Université de Paris — *Professor of French, Emeritus*
HELEN THAYER JONES, Ph.D. — *Professor of Chemistry, Emeritus*
HARRIET CUTLER WATERMAN, Ph.D. — *Professor of Zoology, Emeritus*
ELLA KEATS WHITING, Ph.D. — *Dean and Professor of English, Emeritus*
MARY LELLAH AUSTIN, Ph.D. — *Professor of Zoology, Emeritus*
GRACE ETHEL HAWK, B.Litt. (Oxon) — *Professor of English, Emeritus*
ELIZABETH BEALL, Ph.D. — *Associate Professor of Physical Education, Emeritus*
LUCY WINSOR KILLOUGH, Ph.D. — *Professor of Economics, Emeritus*
MAGDALENE SCHINDELIN, Ph.D. — *Associate Professor of German, Emeritus*
ELINOR MARIE SCHROEDER, Ph.D. — *Associate Professor of Physical Education, Emeritus*
HOWARD HINNERS, B.A. — *Professor of Music, Emeritus*
GLADYS KATHRYN MCCOSH, Ph.D. — *Professor of Zoology, Emeritus*
DOROTHY MAE ROBATHAN, Ph.D. — *Professor of Latin, Emeritus*
AGNES ANNE ABBOT — *Professor of Art, Emeritus*
ELIZABETH LOUISE BROYLES, M.D. — *Resident Physician, Emeritus*
CHARLES WILLIAM KERBY-MILLER, Ph.D. — *Professor of English, Emeritus*

THE FACULTY

(Listed alphabetically within rank)

THELMA GORFINKLE ALPER, B.A., M.A., Wellesley College; Ph.D., Radcliffe College — *Professor of Psychology*
GRAZIA AVITABILE, B.A., M.A., Smith College; Ph.D., Bryn Mawr College — *Professor of Italian*
LAURA BORNHOLDT,[1] B.A., M.A., Smith College; Ph.D., Yale University — *Professor of History; Dean of the Faculty*
RICHARD VERNON CLEMENCE, Ph.B., M.A., Brown University; M.A., Ph.D., Harvard University — *Professor of Economics*
HELEN STORM CORSA, B.A., Mount Holyoke College; M.A., Ph.D., Bryn Mawr College — *Professor of English*
JEAN VECHTE CRAWFORD, B.A., Mount Holyoke College; M.A., Oberlin College; Ph.D., University of Illinois — *Professor of Chemistry*
HARRIET BALDWIN CREIGHTON, B.A., Wellesley College; Ph.D., Cornell University — *Ruby F. H. Farwell Professor of Botany*
FRED DENBEAUX, B.A., Elmhurst College; B.D., S.T.M., Union Theological Seminary — *Professor of Biblical History*
ELIZABETH EISELEN, B.A., Northwestern University; M.A., Columbia University; Ph.D., University of Chicago — *Professor of Geography*
ALLAN WARDELL EISTER, B.A., DePauw University; M.A., American University; Ph.D., University of Wisconsin — *Professor of Sociology*
ALONA ELIZABETH EVANS, B.A., Ph.D., Duke University — *Professor of Political Science*
VIRGINIA MAYO FISKE,[1] B.A., M.A., Mount Holyoke College; Ph.D., Radcliffe College — *Professor of Zoology*
TERESA GRACE FRISCH, M.A., Wellesley College; Ph.D., Yale University — *Professor of Art; Dean of Students*
RENÉ MARIE GALAND, Lic.-ès-Lettres, University of Rennes; Ph.D., Yale University — *Professor of French*

[1] Absent on leave.

HERBERT MORRISON GALE, B.A., State University of Iowa; M.A., S.T.B., Ph.D., Boston University *Professor of Biblical History*

CHARLOTTE ELIZABETH GOODFELLOW,[1] B.A., Mount Holyoke College; M.A., Ph.D., Bryn Mawr College *Professor of Latin and History*

JANET BROWN GUERNSEY,[1] B.A., Wellesley College; M.A., Radcliffe College; Ph.D., Massachusetts Institute of Technology *Professor of Physics*

EDWARD VOSE GULICK,[1] B.A., M.A., Ph.D., Yale University *Professor of History*

BERNARD CHAPMAN HEYL, B.A., Princeton University; M.A., Harvard University; M.F.A., Princeton University *Clara Bertram Kimball Professor of Art*

DOROTHY HEYWORTH, B.Sc., M.Sc., Manchester University; Ph.D., University of Chicago *Professor of Physics*

SARAH JEANNETTE HILL, B.A., Smith College; Ph.D., Columbia University *Professor of Astronomy*

WALTER EDWARDS HOUGHTON,[3] Ph.B., M.A., Ph.D., Yale University *Sophie C. Hart Professor of English*

EVA ELIZABETH JONES, B.A., Radcliffe College; M.A., University of Maine; Ph.D., Radcliffe College *Lewis Atterbury Stimson Professor of Zoology*

LOUISE KINGSLEY, B.A., M.A., Smith College; Ph.D., Bryn Mawr College *Professor of Geology*

ERNEST RENÉ LACHEMAN, Maturité Réale, College of Geneva; B.D., Yale University; Ph.D., Harvard University *Professor of Biblical History*

GERMAINE LAFEUILLE, Dipl.E.S., Agrégée des Lettres, University of Paris; Ph.D., Radcliffe College *Professor of French*

HUBERT WELDON LAMB, B.A., Harvard University; Mus.D. (Hon.) *Hamilton C. Macdougall Professor of Music*

KATHERINE LEVER, B.A., Swarthmore College; M.A., Ph.D., Bryn Mawr College *Professor of English*

EDITH BRANDT MALLORY, B.A., Wellesley College; M.A., Ph.D., Columbia University *Professor of Psychology*

JOHN MCANDREW, B.S., M.Arch., Harvard University *Professor of Art*

BARBARA PHILIPPA MCCARTHY, B.A., Brown University; M.A., University of Missouri; Ph.D., Yale University *Ellen A. Kendall Professor of Greek*

EDITH MELCHER, B.A., M.A., Ph.D., Bryn Mawr College *Professor of French*

MARY RUTH MICHAEL, B.A., Hood College; M.A., Cornell University; Ph.D., Radcliffe College *Professor of English*

MARY LUCETTA MOWRY, B.A., Wilson College; M.A., Presbyterian College of Christian Education; B.D., Ph.D., Yale University; L.H.D. *Professor of Biblical History; Dean of Juniors*

VIRGINIA ONDERDONK, B.A., Wellesley College *Professor of Philosophy; Acting Dean of the Faculty*

VIRGINIA FLEMING PRETTYMAN,[1] B.A., Agnes Scott College; Ph.D., Yale University *Professor of English*

JUSTINA RUIZ-DE-CONDE, Bachiller, Instituto nacional "Cardenal Cisneros" (Madrid); Lic. en Derecho, University of Madrid; M.A., Ph.D., Radcliffe College *Professor of Spanish*

[1] Absent on leave.
[3] Absent on leave for the second semester.

HELEN GERTRUDE RUSSELL,[1] B.A., Wellesley College; M.A., Columbia University; Ph.D., Radcliffe College
Helen Day Gould Professor of Mathematics

ALICE TURNER SCHAFER, B.A., University of Richmond; M.S., Ph.D., University of Chicago
Professor of Mathematics

HENRY FREDERICK SCHWARZ, B.A., Harvard University; B.Litt., Oxford University; Ph.D., Harvard University
Elisabeth Hodder Professor of History

BARTLETT HICKS STOODLEY, B.A., Dartmouth College; LL.B., M.A., Ph.D., Harvard University
Professor of Sociology

OWEN SCOTT STRATTON, B.A., Reed College; M.A., Ph.D., Stanford University
Professor of Political Science

MARGARET ELIZABETH TAYLOR, B.A., Vassar College; M.A., Ph.D., Yale University
Helen J. Sanborn Professor of Latin

EVELYN FAYE WILSON, B.A., Beloit College; M.A., University of Washington; Ph.D., University of California
Alice Freeman Palmer Professor of History

LOUISE PALMER WILSON, B.A., Southwestern College; M.S., Ph.D., University of Pennsylvania
Professor of Zoology

DELAPHINE GRACE ROSA WYCKOFF, Ph.B., Ph.M., Ph.D., University of Wisconsin
Professor of Bacteriology

CAROLYN SHAW BELL, B.A., Mount Holyoke College; Ph.D., London University
Associate Professor of Economics

JACK LEONARD BENSON, B.A., University of Missouri; M.A., Indiana University; Ph.D., University of Basel
Associate Professor of Art

CONCHA BRETÓN, Bachiller, Instituto general y técnico (Barcelona); M.A., Middlebury College; Doctora en Letras, University of Madrid
Associate Professor of Spanish

ALICE BIRMINGHAM COLBURN, B.A., Wellesley College; M.A., Ph.D., Radcliffe College
Associate Professor of History

JACQUELINE PASCAL EVANS, B.A., Vassar College; M.A., Ph.D., Radcliffe College
Associate Professor of Mathematics

DAVID RUSSELL FERRY, B.A., Amherst College; M.A., Ph.D., Harvard University
Associate Professor of English

PHYLLIS JANE FLEMING, B.A., Hanover College; M.S., Ph.D., University of Wisconsin
Associate Professor of Physics

CARLO ROGER FRANÇOIS, Lic. en Philosophie et Lettres, Agrégé, University of Liège; M.A., Ph.D., Harvard University
Associate Professor of French

ELIZABETH HOLMES FRISCH
Associate Professor of Art

ROBERT ERWIN GARIS, B.A., Muhlenberg College; M.A., Ph.D., Harvard University
Associate Professor of English

ELLEN STONE HARING, B.A., Bryn Mawr College; M.A., Ph.D., Radcliffe College
Associate Professor of Philosophy

[1] Absent on leave.

BEVERLY JOSEPH LAYMAN, B.A., Roanoke College; M.A., University of Virginia; M.A., Ph.D., Harvard University
Associate Professor of English

IRINA BORISOVA-MOROSOVA LYNCH, M.A., Ph.D., Radcliffe College
Associate Professor of Russian

CLIFFORD RAYMOND NOLL, JR., B.A., Brown University; M.S., University of Illinois; Ph.D., University of Wisconsin
Associate Professor of Chemistry

PATRICK FRANCIS QUINN, B.A., M.A., University of Wisconsin; Ph.D., Columbia University *Associate Professor of English*

ELIZABETH JANE ROCK, B.S., College of Mount St. Vincent; M.A., Smith College; Ph.D., Pennsylvania State University
Associate Professor of Chemistry

BARBARA SALDITT, B.A., Rockford College; M.A., Ph.D., University of Chicago *Associate Professor of German*

CURTIS HOWARD SHELL, M.A., Stanford University; Ph.D., Harvard University *Associate Professor of Art*

BETTY SPEARS, B.S., Purdue University; M.S., Wellesley College; Ph.D., New York University *Associate Professor of Physical Education*

JOSEPH LEWIS SULLIVAN, B.A., M.A., University of Texas; M.A., Ph.D., Harvard University *Associate Professor of History*

MARY EWEN ULICH, B.A., M.A., Colby College; Ed.D., Harvard University *Associate Professor of Education*

ELEANOR RUDD WEBSTER, B.A., Wellesley College; M.A., Mount Holyoke College; M.A., Ph.D., Radcliffe College
Associate Professor of Chemistry

CLAIRE ZIMMERMAN, B.A., Wellesley College; Ph.D., Radcliffe College *Associate Professor of Psychology*

MIRIAM HASKELL BERLIN, B.A., Smith College; M.A., Ph.D., Radcliffe College *Assistant Professor of History*

LEO BERSANI,[1] B.A., M.A., Ph.D., Harvard University
Assistant Professor of French

ALICE LOUISE BULL, B.A., Middlebury College; M.A., Mount Holyoke College; Ph.D., Yale University *Assistant Professor of Zoology*

DABNEY WITHERS CALDWELL, B.A., Bowdoin College; M.A., Brown University; Ph.D., Harvard University *Assistant Professor of Geology*

MARIANNA LOUISE CARLSON, B.A., Douglass College; Ph.D., Yale University *Assistant Professor of French*

MARTHA ELEANOR CHURCH, B.A., Wellesley College; M.A., University of Pittsburgh; Ph.D., University of Chicago
Assistant Professor of Geography

EUGENE LIONEL COX, B.A., College of Wooster; Ph.D., Johns Hopkins University *Assistant Professor of History*

MARTHA ALDEN CRAIG, B.A., Oberlin College; M.A., Ph.D., Yale University *Assistant Professor of English*

[1] Absent on leave.

JOHN CHARLTON CRAWFORD, B.Mus., M.Mus., Yale School of Music; M.A., Ph.D., Harvard University *Assistant Professor of Music*

BLANCHE DE PUY, B.A., Wellesley College; M.Litt., University of Pittsburgh; Ph.D., Stanford University *Assistant Professor of Spanish*

NAOMI JUNE DIAMOND,[1] B.A., University of Toronto; M.A., Ohio State University; Ph.D., University of Washington *Assistant Professor of English*

DANTE LEE GERMINO, B.A., Duke University; M.A., Ph.D., Harvard University *Assistant Professor of Political Science*

MARSHALL IRWIN GOLDMAN,[3] B.S., Wharton School, University of Pennsylvania; M.A., Ph.D., Harvard University *Assistant Professor of Economics*

MARTHA JULIA GOTH, Ph.D., University of Basel *Assistant Professor of German*

VICTOR GOUREVITCH, B.A., University of Wisconsin; Ph.D., University of Chicago *Assistant Professor of Philosophy*

BARBARA BUCKSTEIN GREEN, B.A., Wellesley College; M.A., Ph.D., Radcliffe College *Assistant Professor of Political Science*

JOHN HENRY HAGAN, JR., B.A., Harvard University; M.A., Ph.D., University of Chicago *Assistant Professor of English*

CHARLES ARTHUR MANN HALL,[1] B.S., Northwestern University; B.D., McCormick Theological Seminary *Assistant Professor of Biblical History*

WILLIAM A. HERRMANN, JR., B.A., M.A., Ph.D., Columbia University *Assistant Professor of Music; Director of the Choir*

GABRIELE BERNHARD JACKSON, B.A., Bard College; M.A., Ph.D., Yale University *Assistant Professor of English*

OWEN HUGHES JANDER, B.A., University of Virginia; M.A., Ph.D., Harvard University *Assistant Professor of Music*

ROGER ALAN JOHNSON, B.A., Northwestern University; B.D., Yale University *Assistant Professor of Biblical History*

KAY FRANCES KOCH, B.S., University of Illinois; Ph.D., University of California *Assistant Professor of Chemistry*

MARY ROSENTHAL LEFKOWITZ, B.A., Wellesley College; M.A., Ph.D., Radcliffe College *Assistant Professor of Greek and Latin*

GRACE JUNE MARSHALL, B.A., Texas State College for Women; M.S., University of Michigan; Ph.D., Baylor University *Assistant Professor of Zoology*

FLORENCE TURNER MCCULLOCH, B.A., Vassar College; M.A., Ph.D., University of North Carolina *Assistant Professor of French*

VIRGINIA ROGERS MILLER, B.A., Wheaton College; M.A., Cornell University *Assistant Professor of Speech*

BENJAMIN CHARLES MILNER, JR., B.A., Emory University; B.D., Columbia Theological Seminary; M.A., Harvard University *Assistant Professor of Biblical History*

JUDITH HIRSCHFIELD OBERMAYER, B.S., Carnegie Institute of Technology; M.A., Radcliffe College; Ph.D., Harvard University *Assistant Professor of Mathematics*

ELLA PACALUYKO,[1] B.A., Cornell University; M.A., Radcliffe College; Ph.D., Harvard University *Assistant Professor of Russian*

[1] Absent on leave.
[3] Absent on leave for the second semester.

PHILIP MONFORD PHIBBS, B.A., Washington State University; M.A., Ph.D., University of Chicago *Assistant Professor of Political Science*
WAYNE GILBERT ROLLINS, B.A., Capital University; B.D., M.A., Ph.D., Yale University *Assistant Professor of Biblical History*
JANE ANN SCHOONMAKER, B.S., University of Illinois; M.S., Smith College *Assistant Professor of Physical Education*
ANNEMARIE ANROD SHIMONY, B.A., Northwestern University; Ph.D., Yale University *Assistant Professor of Sociology*
PATRICIA MEYER SPACKS, B.A., Rollins College; M.A., Yale University; Ph.D., University of California *Assistant Professor of English*
INGRID HESS STADLER,[1] B.A., Vassar College; M.A., Ph.D., Radcliffe College *Assistant Professor of Philosophy*
JOCELYN MARY TAYLOR,[1] B.A., Smith College; M.A., Ph.D., University of California *Assistant Professor of Zoology*
ZINA TILLONA, B.A., Hunter College; M.A., Wellesley College; D.M.L., Middlebury College *Assistant Professor of Italian*
KATHRYN LEE CONWAY TURNER, B.A., Goucher College; M.A., Ph.D., University of Wisconsin *Assistant Professor of History*
WALTER WARREN WAGAR,[1] B.A., Franklin and Marshall College; M.A., Indiana University; Ph.D., Yale University *Assistant Professor of History*
EDWARD MICHAEL WHITE, B.A., New York University; M.A., Ph.D., Harvard University *Assistant Professor of English*
DOROTHEA JANE WIDMAYER, B.A., M.A., Wellesley College; Ph.D., Indiana University *Assistant Professor of Zoology*

JANE ANDREWS AIKEN, B.A., Wellesley College; M.A., Columbia University *Instructor in Art*
MARY DAY ALBERT, B.S., University of New Hampshire; M.A., Bryn Mawr College; Ph.D., Brown University *Instructor in Zoology*
SHIRLEY MONTAG ALMON, B.A., Goucher College; M.A., Radcliffe College *Instructor in Economics*
DAVID BARNETT, B.A., Columbia University; Mus.D. (Hon.) *Instructor in Piano*
ELIZABETH STANTON BLAKE, B.A., Barnard College; M.A., Middlebury College *Instructor in French*
ANNETTE CARTAN BOUJU, Dipl. E.S., Agrégée d' Anglais, University of Paris *Instructor in French*
RENATA HOFMAN BRIGGS *Instructor in German*
MELVIN EUGENE BRUNETTI, B.A., M.A., University of California *Instructor in History*
RUTH POSSELT BURGIN *Instructor in Violin*
EUGENE ALBERT CARROLL, B.A., Harris Teachers College; M.A., Harvard University *Instructor in Art*
MAUD HAZELTINE CHAPLIN, B.A., Wellesley College; M.A., Brandeis University *Instructor in History*

[1] Absent on leave.

MONIQUE Y. CROCHET, Lic.-ès-Lettres, Dipl. E.S., University of Paris
Instructor in French

DOROTHY JANE CROUCH, B.A., University of California (Berkeley); M.A., Ph.D., Stanford University
Instructor in Botany

MARGARET DALTON, B.A., Radcliffe College
Instructor in Russian

ELEANOR MIRIAM DAVIS, B.Mus., M.Mus., New England Conservatory of Music
Instructor in Voice

VALDA DREIMANIS, B.A., M.A., Boston University
Instructor in German

EMILY PITCHER DUDEK, B.A., Smith College; M.A., Ph.D., Radcliffe College
Instructor in Chemistry

ELINOR L. DUFF, B.Mus., M.Mus., New England Conservatory of Music; M.A., Radcliffe College
Instructor in Music

EARL R. FLANSBURGH, B.Arch., Cornell University; M.Arch., Massachusetts Institute of Technology
Instructor in Art

DAVID G. FUNK, B.A., Amherst College
Instructor in Economics

JANET ZOLLINGER GIELE, B.A., Earlham College; M.A., Ph.D., Radcliffe College
Instructor in Sociology

KLAUS GOETZE
Instructor in Piano

ARTHUR RALPH GOLD, B.A., Princeton University; M.A., Harvard University
Instructor in English

MERLE D. GOLDMAN, B.A., Sarah Lawrence College; M.A., Radcliffe College
Instructor in History

ELLEN SILVER GREENBERGER, B.A., Vassar College; M.A., Ph.D., Radcliffe College
Instructor in Psychology

JOEN ELIZABETH GREENWOOD, B.S., M.A., University of Wisconsin
Instructor in Economics

MAUREEN HALSALL, B.A., McMaster University; M.A., Radcliffe College; Ph.D., Harvard University
Instructor in English

GEORGE ERIC HANSEN, B.A., Lawrence College; M.A., M.A.L.D., Tufts University
Instructor in Political Science

LAURA EVELYN HOURTIENNE, B.A., MacMurray College; M.A., University of Illinois; Ph.D., Bryn Mawr College
Instructor in German

EVELYN BOLDRICK HOWARD, B.S., University of California (Los Angeles); M.S., Wellesley College
Instructor in Physical Education

GEORGIA MAY HULAC, B.S., University of Nebraska; M.Ed., Woman's College, University of North Carolina
Instructor in Physical Education

SIDNEY J. HURWITZ, B.A., Brandeis University; M.F.A., Boston University
Instructor in Art

ALAN WILKIN JENKS, B.A., University of New Mexico; B.D., Church Divinity School of the Pacific
Instructor in Biblical History

JOHN KENNETH KUNTZ, B.A., Grinnell College; B.D., Yale University; Th.D., Union Theological Seminary
Instructor in Biblical History

CAROLE COLEBOB LABROUSSE, B.A., Bryn Mawr College; M.A., University of California (Berkeley)
Instructor in Mathematics

ROSE ROCHMAN LANGBERT, B.S., McGill University; M.S., University of Wisconsin
Instructor in Physical Education

JACQUELINE LAUNAY, Dipl.E.S., Agrégée d'Anglais, University of Paris
Instructor in French

EUGENE LEHNER
Instructor in Viola

PIERS INGERSOLL LEWIS, B.A., Amherst College; M.A., Harvard University
Instructor in English

JOANNE MARGARET LUNT, B.S., Tufts University; M.F.A., Woman's College, University of North Carolina *Instructor in Physical Education*

ELISABETH DEBERDT MALAQUAIS, Lic.-ès-Lettres, University of Paris *Instructor in French*

JOSEPH PETER MASCARENHAS, B.S., M.S., University of Poona; Ph.D., University of California (Berkeley) *Instructor in Botany*

MARGUERITE MOLONEY, B.A., Emmanuel College; M.A., Ph.D., Yale University *Instructor in English*

ANNE PEPPER NEAL, B.S., Woman's College, University of North Carolina *Instructor in Physical Education*

JAMES PAPPOUTSAKIS *Instructor in Flute*

LOUISE CAME PAPPOUTSAKIS *Instructor in Harp*

LOIS F. PARDUE, B.M., University of Rochester *Instructor in Organ*

JAN PARKER, B.A., Connecticut College; M.A., University of Connecticut *Instructor in Economics*

NORMAN RICHARD PETERSEN, JR., B.F.A., Pratt Institute; S.T.B., Harvard University *Instructor in Biblical History*

ROBERT LESLIE PIERCE, B.A., Carleton College; M.A., Harvard University *Instructor in Mathematics*

HENRY JOHNSON PRATT, B.A., Dartmouth College; M.P.A., University of Michigan; Ph.D., Columbia University *Instructor in Political Science*

JAMES WILSON RAYEN, B.A., B.F.A., M.F.A., Yale University *Instructor in Art*

LYNN MOORHEAD RIDDIFORD, B.A., Radcliffe College; Ph.D., Cornell University *Instructor in Zoology*

SUZANNE ROBINSON, B.A., Sarah Lawrence College; M.A., Columbia University *Instructor in English*

SYLVIA ANN CARLIER ROWBOTHAM, Dipl., Bedford College *Instructor in Physical Education*

ALAN HENRY SCHECHTER, B.A., Amherst College *Instructor in Political Science*

HARRY SHAPIRO *Instructor in Horn*

SYBIL ANN SHONYO, B.S., Tufts University *Instructor in Physical Education*

CLARENCE ROBERT SHOOP, B.A., Southern Illinois University; M.S., Ph.D., Tulane University *Instructor in Zoology*

ALAIN P. SOLARD, B.A., Texas Christian University; M.A., Ph.D., University of California (Los Angeles) *Instructor in French*

LOUIS SPEYER *Instructor in Oboe and English Horn*

ADELE RUTH SPITZER, B.A., Barnard College; M.A., Ph.D., Yale University *Instructor in Philosophy*

FRANCINE HAMM STOCKHOLM, Dipl. E.S., Dr. de l'Université de Strasbourg *Instructor in French*

FRANK COCHRAN TAYLOR II, B.A., Yale University *Instructor in Organ*

POLLY HANSON VANEK, B.S., M.S., University of Arizona *Instructor in Astronomy*

LINDA KENT VAUGHAN, B.S., M.A., Russell Sage College *Instructor in Physical Education*

FELIX ALFRED VISCUGLIA, Mus.B., New England Conservatory of Music *Instructor in Clarinet*

SAMUEL FOGLE WELLS, JR., B.A., University of North Carolina; M.A., Harvard University *Instructor in History*

Michael Donald Zeiler, B.A., Stanford University; M.A., Ph.D., New School for Social Research — *Instructor in Psychology*
Alfred Zighera — *Instructor in Cello*

Lecturers

Marie Nemcova Banerjee, B.A., Collège Marie de France; M.A., University of Montreal; Ph.D., Radcliffe College — *Lecturer in Russian*
Evelyn Claire Barry, B.A., M.A., Radcliffe College — *Lecturer in Music*
Paul Rogers Barstow, B.A., Williams College; M.F.A., Yale University — *Lecturer in Speech; Director of the Theatre*
Seth Benardete, B.A., M.A., Ph.D., University of Chicago — *Visiting Lecturer in Philosophy*
Sylvia Leah Berkman,[5] B.A., Brown University; M.A., Ph.D., Radcliffe College — *Lecturer in English*
Jeffrey Ernest Butler,[5] B.A., M.Ed., Rhodes University College; M.A., Oxford University — *Lecturer in History*
Esther Comegys, B.A., Wellesley College; M.A., University of Pennsylvania; Ph.D., Harvard University — *Lecturer in Mathematics*
Martha Ellis François, B.A., Wells College; M.A., Mount Holyoke College; Ph.D., Radcliffe College — *Lecturer in History; Dean of Sophomores*
Katherine Allston Geffcken, B.A., Agnes Scott College; M.A., Ph.D., Bryn Mawr College — *Lecturer in Latin and Greek*
Robert Deryl Hayton,[5] B.A., Montana State University; M.A., Ph.D., University of California (Berkeley) — *Visiting Lecturer in Political Science*
Harry Hearder, B.A., University of Exeter; Ph.D., Bedford College, University of London — *Visiting Lecturer in History*
Irving Hurwitz, B.A., Ph.D., Clark University — *Lecturer in Psychology*
Louise Catherine Heuser Keller, B.A., Radcliffe College; Ed.M., Boston University — *Lecturer in Education; Director of the Page Memorial School*
Josette Mane, Lic-ès-Lettres, Dipl. E.S., Agrégée d' Anglais, University of Paris — *Lecturer in French*
Margaret Breed Marsh, B.A., Smith College; M.A., Ph.D., Radcliffe College — *Lecturer in English*
Jeanette McPherrin, B.A., Scripps College; M.A., Claremont College — *Lecturer in French; Dean of Freshmen*
Rilla Mary Phillips, B.A., Whitman College; M.A., Ph.D., Bryn Mawr College — *Lecturer in Philosophy*
Ruth Anna Putnam, B.S., Ph.D., University of California (Los Angeles) — *Lecturer in Philosophy*
Catherine Burke Rice,[5] B.A., Radcliffe College; M.A., Wellesley College — *Lecturer in Physics*
May Sarton[4] — *Lecturer in English*
Philipp Schmidt-Schlegel,[5] LL.D., University of Heidelberg — *Visiting Lecturer in Political Science*
Joan Crowell Siegfried, B.F.A., Carnegie Institute of Technology; M.A., New York University — *Lecturer in Art*
Robert Paul Wolff, B.A., M.A., Ph.D., Harvard University — *Visiting Lecturer in Philosophy*

[4] Appointed for the first semester only.
[5] Appointed for the second semester only.

OFFICERS OF ADMINISTRATION

MARGARET CLAPP, Ph.D., LL.D., Litt.D. — *President*
LAURA BORNHOLDT,[1] Ph.D. — *Dean of the Faculty; Professor of History*
VIRGINIA ONDERDONK, B.A. — *Acting Dean of the Faculty; Professor of Philosophy*
TERESA GRACE FRISCH, Ph.D. — *Dean of Students; Professor of Art*
JEANETTE MCPHERRIN, M.A. — *Dean of Freshmen; Lecturer in French*
MARTHA ELLIS FRANÇOIS, Ph.D. — *Dean of Sophomores; Lecturer in History*
MARY LUCETTA MOWRY, Ph.D., L.H.D. — *Dean of Juniors; Professor of Biblical History*
ELEANOR MILTON TENNEY, B.A. — *Director of Residence; Foreign Student Adviser*
GWENYTH MORGAN RHOME, M.A. — *Recorder*
VIRGINIA VAUGHAN SIDES, B.A. — *Administrative Vice President*
JOAN FISS BISHOP, M.A. — *Director of the Placement Office*
BARBARA M. CLOUGH, M.A. — *Director of Admission*
ELINOR ANDERSON GILFILLAN, B.A. — *Director of the Development Fund*
JEAN GLASSCOCK, M.A. — *Director of Publicity; Coordinator of Special Events*
HENRY AUSTIN WOOD, JR., B.A., M.B.A. — *Treasurer*
ROBERT J. SCHNEIDER, M.B.A. — *Business Manager*
HELEN BATES ANDERSON, B.S. — *Director of the Personnel Office*
ELIZABETH CORNWALL, B.S. — *Executive Dietitian*
HARRY BERTRAM JONES — *Controller*
JOHN HERBERT KREINHEDER, B.S. — *Superintendent of Buildings and Grounds*
JOHN LOUIS LELIEVRE — *Purchasing Agent*
JOHN KENNETH SPRING, B.A., M.B.A. — *Assistant Treasurer*

LIBRARIANS

HELEN MARGARET BROWN, B.A., M.S. — *Librarian*
ELEANOR ADAMS, B.S. — *Senior Cataloguer*
ELAINE SYBIL BERG, B.A., M.S. — *Circulation Librarian*
MARGARET MARION BOYCE, B.A., M.A., M.L.S. — *Research Librarian, Reference and Instruction*
ELIZABETH SIMMONS COOKSON, B.A. — *Junior Cataloguer*
HANNAH DUSTIN FRENCH, B.A., B.S., M.S. — *Research Librarian, Special Collections*
MARION ELIZABETH KANALY, B.A., B.S., M.A. — *Documents Librarian*
WYNIFRED EVELYN EAVES LEMAITRE, B.A., B.L.S. — *Cataloguer*
THERESE JEAN MUELLER, B.M., M.A.L.S. — *Music Librarian*
BEATRICE MAE QUARTZ, B.A., B.A.L.S., M.A. — *Associate Librarian, Technical Services*
ANN MILLICENT RINEHART, B.S. in Ed., M.S. — *Serials Librarian*
IOLA CORLISS SCHEUFELE — *Administrative Assistant, Acquisitions Department*
HELEN MARY WALKER, B.A., M.S. — *Cataloguer*

[1] Absent on leave.

PHYSICIANS

William Anthony Hall, M.D.	*Director of Health Services*
Elizabeth Veeder, M.D.	*Associate Physician*
Grace Evelyn Wilder, M.D.	*Assistant Physician*
Harold Dixon Stalvey, M.D.	*Consulting Psychiatrist*
Jeannette Hatfield Corwin, M.D.	*Associate Consulting Psychiatrist*
Ralph Philip Engle, Jr., M.D.	*Associate Consulting Psychiatrist*

RESIDENT HEADS OF HOUSES

Louise Reynolds Bradner, B.A.	*Head of Tower Court*
Adeline E. Buckley	*Head of Beebe Hall*
Irva Jones, B.A.	*Head of Cazenove Hall*
Ruth Cullens Martin, B.A.	*Head of McAfee Hall*
Jean McCracken Milligan	*Head of Claflin Hall*
Cynthia Crosman Moses	*Head of Stone Hall*
Hannah Overbeck	*Head of Olive Davis Hall*
Emma C. Riddle	*Head of Freeman Hall*
Helen Farr Robertson, B.A.	*Head of Munger Hall*
Dorothy M. Slensby	*Head of Shafer Hall*
Mary Folsom Staples	*Head of Pomeroy Hall*
Elizabeth S. Thompson, B.A.	*Head of Bates Hall*
Constance Stanton Turner, B.A.	*Head of Severance Hall*

ADMINISTRATIVE STAFF

Joan Parker Bathelt, B.A.	*Assistant to the Director of Admission*
Macy Carter	*Secretary to the Director of Residence*
Ann Heath Cram	*Secretary to the Dean of the Faculty*
Helen Deal Dewing, B.A.	*Secretary to the Dean of Students*
Vivien Kingsford Dowst	*Secretary, Infirmary*
Doris Elsie Drescher, B.S.	*Assistant Secretary to the President*
Virginia Phillips Eddy, B.A.	*Secretary to the President*
Evelyn T. Farnsworth, B.A., M.P.H.	*Administrative Assistant, Wellesley College Health Services*
Doris Kirkham Grant	*Administrative Assistant to the Director of Admission*
Thelma Cummings Hall	*Assistant to the Recorder*
Meredith Rosalind Hanlon, B.A.	*Assistant to the Director of Publicity*
Elfriede Carter Maclaurin, B.A.	*Placement Counselor*
Patricia Leahy Meany, B.A.	*Placement Counselor*
Charlotte Whitman Richards, B.S.	*Assistant Director of Publicity*
Beatrice Helen Strand, B.A.	*Assistant to the Director of Admission*
Harriet V. Sullivan, Ph.D.	*Assistant to the Director of Admission*
Barbara Maynard Twombly, B.A.	*Manager, Information Bureau*
Frances Jean Wells, B.A.	*Program Director, Development Fund*
Erma Soults Whipp, B.S.	*Administrative Assistant to the Librarian*
Rhoda Ziegler, B.A.	*Manager, Duplicating Office*

THE COLLEGE

Wellesley College is a liberal arts college for women situated in the township of Wellesley twelve miles west of Boston. The four hundred acre campus was once the country estate of Henry Fowle Durant, a wealthy Boston lawyer. In the 1860's Mr. Durant and his wife, moved by religious convictions, decided to establish a residential college that would "offer to young women opportunities for education equivalent to those usually provided in colleges for young men." It was Mr. Durant's hope that in this college young women could prepare themselves "for great conflicts, for vast reforms in social life, for noblest usefulness." The decision was followed by years of preparation until the College received a charter in 1870 and in 1875 was opened to three hundred and fourteen students.

The resources and size of the College grew steadily. The single building with which Wellesley started, College Hall, housed all students and faculty and contained the library, chapel, classrooms, and laboratories. As the number of students increased, other buildings were added, but College Hall remained the center of community life until it was destroyed by a great fire in 1914. Gradually Wellesley was rebuilt; in place of one enormous structure housing many activities, buildings for special uses were erected on the various hills on the campus.

Today more than forty buildings provide facilities for the intellectual and community life of the College. Thirteen of them are residence halls for undergraduate students. The halls are large, with the result that the student, who finds that academic instruction is usually given in small groups, in the course of her residence forms a wide acquaintance with people who come from many different regions.

Wellesley believes that the study of the liberal arts develops perspective and intellectual strength for the endeavors of a lifetime. It seeks to give to the student broad knowledge of her cultural heritage and to develop her competence in and respect for disciplined, honest thinking. These purposes of the College have remained constant since its founding, while the particulars of its programs are frequently revised under the influences of the changing contemporary world.

The faculty is composed of approximately 170 men and women, trained in many different universities here and abroad and chosen to maintain Wellesley's tradition of good teaching and sound scholarship. The student body includes approximately 1,700 young women who bring to the community the cultural, economic, and regional diversity of the United States, and also representation of many foreign countries. Because of the size and composition of the College the student meets a wide range of view-

points and fields of special interest; yet she finds that the policies of the modern Wellesley permit education to be an individual process as it was when the College began.

Most classes are small enough to make possible the exchange of ideas between student and teacher and to enable the faculty to know and plan for the needs of each individual. The student is not provided with a required "core" curriculum but in the freshman and sophomore years is asked to elect from many available courses work in the humanities, the social sciences, and the sciences. In this way she builds at once on her own earlier education and her present interests while developing with her fellows a basic community of understanding of the liberal arts.

As soon as she wishes and at the latest by the end of the sophomore year, she selects a major. Within her major department she continues to develop her particular interests by choosing her special work from its offering of advanced courses, seminars, and guided independent study, while limitation of the amount of specialization safeguards the broadly liberal purpose of the four-year undergraduate curriculum.

The student is expected to take the initiative in planning her program and in meeting her academic and residential obligations. At various times before reaching decisions she may need counsel or may wish to talk freely with an older person about her academic or personal life. At such times she can turn easily to her class dean who keeps in touch with her academic progress and her personal welfare, or to her instructors, including the ordained ministers who are teaching members of the faculty, to the resident head of her house, or to the college physicians and psychiatrists. After she selects a major, she may also find helpful the chairman or her adviser in the major department. If she has financial difficulties, she may turn to her dean, to the secretary to the Committee on Scholarships, or to the Students' Aid Society. If she wishes paid work during the academic year or in vacations, or if as a graduating senior or an alumna she wishes employment, the director of the Placement Office is prepared to help her. Because maturing independence is respected, advice is not thrust upon the student, but it is readily available from experts in various areas and from intelligent adults interested in each individual.

The learning situation created by student and teacher is strengthened by the quality of the physical facilities available for their use. At Wellesley the student of the biological or physical sciences finds laboratories unusually well equipped for undergraduate work and having in addition equipment for the work of graduate students and professors, whose research activities she may be invited to share. The student of art finds in the permanent collections on the campus a representative selection of monuments and extensive collections of slides and photographs, as well as rotating loan exhibits. The student of music finds listening rooms where

she has access to large libraries of records and practice rooms equipped with grand pianos. The student of language has a modern language laboratory available for her use, and for interested students of French, German, or Spanish special residential corridors are maintained. The student of statistics has a modest interdepartmental laboratory open to her. Any student interested in the young child may observe and work with boys and girls in the college laboratory school for three, four, and five year olds.

Every student benefits from library collections which are unusual in size and quality for an undergraduate college. The working library contains approximately 365,000 volumes carefully selected to meet the needs of the faculty as well as the students. Subscriptions to more than 1,000 American and foreign periodicals and the deposit of certain Government publications important to the student of the social sciences add to its usefulness. Special collections, containing rare items as well as important collateral works, offer opportunities for research to the undergraduate student and the advanced scholar. The College is fortunate in having distinguished collections in English poetry, Italian literature, Medieval European literature, and on the Far East. Except for the rare volumes in these and other special collections, books are kept on open shelves to which the student has immediate access.

A broad program of extracurricular activities, made possible by the size and residential character of the College, supplements the liberal arts curriculum. From them the student chooses those which will contribute most to her enjoyment and growth. She may attend lectures by distinguished scholars, readings by poets, music concerts, and art, book, and scientific exhibits. Through participation in various organizations she may test and develop interests in such areas as music, theatre, athletics, journalism, social service, political and civic activity. Whatever her special interest, she finds opportunity to associate informally and to work cooperatively with others.

Some of the student groups, such as choir and theatre, have professional direction; most are organized and conducted entirely by students. Two of them, the Chapel Organization and the College Government Association, are sponsored jointly by students and faculty. The Chapel Organization conducts student-sponsored religious activities, coordinates denominational and interfaith programs, and supports the chapel services sponsored by the College. Since its founding Wellesley has been a non-denominational Christian institution; it offers daily services led by members of the community and Sunday services led by well-known ministers, at all of which attendance is voluntary. The College Government Association, to which all students belong, has executive, legislative, and judicial branches with elected student and faculty representatives, in each of which student

representatives form the majority. This Association supports the methods and spirit of responsible democracy; it charters all extracurricular organizations, establishes committees such as the Student Education Committee, and detemines social and residential regulations.

The present college is in marked contrast to the small faculty and student body, the one building, the collection of eight thousand books, and the restricted social life with which Wellesley started. Yet the serene beauty of the campus remains unchanged, and the student now as always finds opportunity to develop her standards of ethics and taste, of personal and civic responsibility, and her intellectual and creative gifts.

PRESIDENTS

ADA HOWARD (1875-1881)
ALICE FREEMAN (1881-1887)
HELEN SHAFER (1887-1894)
JULIA IRVINE (1894-1899)
CAROLINE HAZARD (1899-1910)
ELLEN FITZ PENDLETON (1911-1936)
MILDRED MCAFEE HORTON (1936-1949)
MARGARET CLAPP (1949-)

THE CURRICULUM

The curriculum is designed to enable each student to achieve a sound liberal education. To provide the opportunity to gain breadth of knowledge and understanding, each student is asked to select a number of courses distributed among several representative fields of knowledge: the humanities, the social sciences, and the natural sciences. In this part of her work she will become acquainted with ways of thinking and with significant content in several disciplines. To provide a means to achieve depth in learning, each student is asked to choose a field of concentration consisting of a major and allied subjects. In this work she should acquire solid knowledge of one field and an understanding of its particular contribution to our civilization; also, she should develop the competence which comes from continued training and advanced study in her chosen field.

There is scope within the curriculum for each student to meet the specific requirements for the degree and, in addition, to choose a considerable number of courses without any restriction as to subject. Indeed, the purpose of the curriculum is to provide the framework within which the student, assisted by her academic advisers, constructs a program of study suited to her individual interests.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

Each candidate for the degree of Bachelor of Arts is required to complete 114 semester hours* of academic work. The normal period of time in which to earn the degree is four years and a normal program of study consists of five courses (15 hours) in each semester of the first three years, and four courses (12 hours) in each semester of the senior year. Also, seniors are required to prepare for a general examination in the major subject.

Required Courses

English 100 (freshman year) 6 hours**

Biblical History 104 (sophomore year) 6 hours***

Physical Education, two periods a week in the freshman and sophomore years (no academic credit)

Distribution of Studies

Twelve hours (two year courses or their equivalent in semester courses) are to be elected as indicated from each of the three groups of subjects

* All references in this catalogue are to semester hours.

** Some students will be exempted on the basis of entrance records and tests taken at Wellesley.

*** Students who are able to read Greek may substitute Biblical History 210 (2), The First Three Gospels in Greek, for the second semester of the required course.

listed below. Of the 36 hours required for distribution, at least 24 hours are to be taken in the freshman and sophomore years. It is permitted, and in many cases it may be desirable, to postpone until junior and senior years 12 hours, not more than 6 hours in each of two groups. Because in some departments certain courses do not count for distribution, in electing courses to meet this requirement students should consult the "Directions for Election" of each department.

Group I. Literature, Foreign Languages, Art and Music.

Departments of English, French, German, Greek, Italian, Latin, Russian, Spanish, Art, Music.

Twelve hours are to be elected in Group I, 6 in one department and 6 in one or two other departments. Of the 12 hours in this group, at least 6 hours must be in literature, English or foreign: courses in English literature,* courses in Greek, Latin or Russian literature in translation, courses in a foreign language in which the main emphasis is on literature.

Group II. Social Science, History and Philosophy.

Departments of Economics, Political Science, Sociology and Anthropology, History, Philosophy.

Twelve hours are to be elected in Group II: 6 hours in economics, or political science, or sociology and anthropology; 6 hours in history or philosophy.

Group III. Science.

Departments of Astronomy, Botany and Bacteriology, Chemistry, Geography, Geology, Mathematics, Physics, Psychology, Zoology and Physiology.

Twelve hours are to be elected in Group III, 6 hours in one department and 6 in one or two other departments. Of the 12 hours in this group, at least 6 hours must be in a laboratory course in one of the following: astronomy, botany, chemistry, geology, physics, zoology. The remaining 6 hours may be taken in courses either with or without laboratory work.**

Students who have not taken a recent course in biology in school should consider the advisability of electing Botany or Zoology 104 and 105. Those who have not taken a recent course in chemistry or physics in school should consider the advisability of electing one of the physical sciences: astronomy, chemistry, geology, physics or Interdepartmental 106.

* English courses with emphasis on writing may not count for distribution.

** Interdepartmental 218, History of Science, counts for distribution as a non-laboratory course.

FIELD OF CONCENTRATION

Students must elect a minimum of 42 hours in one area of concentration, of which at least 24 hours are to be in the major department and at least 12 hours are to be in related departments.

Courses are classified in grades I, II, III, grade I indicating elementary courses and grade III the most advanced courses. Of the 42 hours in the field of concentration, at least 18 hours must be above grade I; at least 12 hours must be grade III; and at least 6 hours of grade III must be taken in the senior year.

Courses taken in fulfillment of the distribution requirement may be counted in the 42 hours in the field of concentration unless otherwise specified by the department.

During the freshman year, with the assistance of the class dean, all students will begin to give thought to the choice of their major subjects and some may reach a final decision. In the second semester of the sophomore year each student, after consultation with the chairman of the appropriate department, elects a major subject and related courses, and prepares for the Recorder a statement of the courses to be included in the field of concentration. If later revisions are necessary, the final plan for the field of concentration, approved by the chairman of the major department, should be presented to the Recorder not later than the spring of junior year.

All departments of the College offer major courses of study except the following: Education, Physical Education, Russian, Speech.

Some students wish to center their study upon an area, a period, or a subject which cuts across the lines of departmental organization. This can be done by meeting the minimum requirements for a major in one department and by careful selection of free electives and of courses related to the major. A student who is interested in a program of this kind should consult her class dean and the chairmen of appropriate departments as soon as possible in her college course. Among the numerous possibilities for such study are programs centering on Asia, Latin America, Russia, the United States; the Middle Ages, the Renaissance; International Relations, Natural Resources, Theatre Studies.

FOREIGN LANGUAGE REQUIREMENT

Each candidate for the degree of Bachelor of Arts must show before the beginning of senior year that she has some proficiency in the use of at least one foreign language, ancient or modern. This requirement may be met by passing one of the language tests of the College Entrance Examination Board at a score of at least 580, or by the completion of a 6 hour course in college at the second year level or higher. The following

courses are of the second year level: French 102, German 102, Greek 201, 202, 205, Italian, 200, 201, 204, Latin 103, Russian 200, Spanish 102.

General Examination

At the end of the senior year each candidate for the degree of Bachelor of Arts must pass a general examination in her major subject, unless as a candidate for honors she is asked to pass special examinations taken in place of the general examination.

The general examination is intended to test the student's intellectual initiative and independence in analyzing, organizing, and relating the material of her major subject; her knowledge of and ability to apply leading ideas met in that subject.

Supplementary Directions

Within the 114 hours required for the degree, the student is permitted to elect:

(1) Not more than 42 hours in any one department*

(2) Not more than two of the following courses: French 101, German 101, Italian 101, Russian 100, Spanish 101

(3) No studio work in Art without the required amount in the history of art (see department statement)

(4) Not more than 18 hours in Education

(5) Not more than 15 or 18 hours in Speech (see department statement)

The program for the senior year may not include more hours of grade I work than of grade III.

Requirements for Graduation

To be recommended for the degree of Bachelor of Arts, a student must complete 114 semester hours of academic work at a C average or better, and she must pass the general examination in her major department, or special examinations for honors in the major subject. Also, she must have resided in the College for at least two years, unless she has had permission to commute from her parents' home, and she must have completed satisfactorily two years of study at Wellesley College, one of which must be the senior year.

The requirement of the senior year at Wellesley College may be waived by a special vote of the Academic Council, taken not later than May of the student's junior year, in order to enable a married student to spend the senior year as a guest at one of five specified colleges, provided she can establish a home with her husband within thirty miles of the host college.

* Except that the maximum of 42 hours permitted in English does not include English 100.

To be eligible for consideration the student should have had three years of residence in the College and have made a strong academic and personal record.

STANDARD OF WRITTEN AND SPOKEN ENGLISH

Students are expected to use good English in their written work in all departments. A student in any class who fails to maintain acceptable standards may be referred to the department of English for remedial work.

Students are also expected to maintain good standards of spoken English. The department of Speech offers courses, and also individual work without academic credit, for students who wish to improve the quality of their oral English.

RESEARCH OR INDEPENDENT STUDY

Each department of the College which offers a major course of study provides the opportunity for certain students to undertake a program of individual study directed by a member of the faculty. Under this program, an eligible student may undertake a research project or a program of reading in a particular field. The results of her work normally will be presented in a thesis or in a series of short essays. The conditions for admission to this work in each department are described under the course title, 350, Research or Independent Study.

HONORS AND ACADEMIC DISTINCTIONS

HONORS IN THE MAJOR SUBJECT

Students who have shown marked excellence and an unusual degree of independence in their work in the major subject may receive the Bachelor of Arts degree with Honors in the Major Subject. Under a program called Special Honors an eligible student may be invited to undertake a piece of independent investigation in which her work will be supervised by a member of the faculty; the successful completion of the independent work and of an honors examination leads to the award of Honors in the Major Subject. Under a plan called General Honors this same award may be made to students who have shown an unusual degree of independence or distinction in courses in the major subject, have elected a sound program in the field of concentration, and have written an excellent general examination.

The intent behind both plans is to single out the most able scholars for this recognition. To be recommended for this award the student, in addition to showing marked excellence in her major subject, must maintain a good general average in all her academic work.

Academic Distinctions

Distinction in academic work is recognized by honorary titles which are open to all students and are awarded without reference to financial need.

The College names as Pendleton Scholars certain entering students who submit outstanding credentials for admission. It confers Freshman Honors on the students who maintain high academic standing during the freshman year and names in convocation the juniors and seniors whose records after the freshman year are at the level of Wellesley College Scholars and Durant Scholars. Final honors, conferred at Commencement, are based on academic records after the freshman year and include the title Wellesley College Scholar for high academic standing and Durant Scholar for the highest academic standing.

Seniors are elected to membership in the Eta of Massachusetts Chapter of Phi Beta Kappa on the basis of their total academic achievement in college, and seniors who are majoring in the sciences may be elected to associate membership in the Wellesley Chapter of Sigma Xi, national honorary scientific society.

On recommendation of the faculty the trustees award to four seniors who intend to pursue graduate studies the title of Trustee Scholar. The awards are made on a competitive basis in two categories: two for graduate study without restriction as to subject; two for graduate study undertaken as preparation for college teaching. The title is honorary; in cases of financial need stipends are awarded to the Scholars or, if not required by them, to alternates who need financial assistance.

Certain prizes have been established at the College for the recognition of merit in a particular field. They carry a small stipend or gift and usually bear the name of the donor or the person honored.

GENERAL INFORMATION

Course Examinations

An examination period occurs at the end of each semester. Examinations for the removal of conditions and deficiencies and for advanced standing may be taken during any examination period and at other specified times.

A student who wishes to take an examination upon a course which is not a part of her approved schedule for the year must apply to the Recorder for the requisite card of admission to the examination.

Special Examinations

In many departments special examinations are offered to qualified students to earn credit for work done independently, for admission to ad-

vanced courses without the stated prerequisites, or to meet part of the distribution requirement. A student is permitted to fulfill by examination rather than by electing a course no more than 6 of the 12 hours required for distribution in each of the three groups. (See pages 24 and 25.) A student who wishes to apply for a special examination to be taken at the beginning of the college year should write to the Recorder before the first of September.

ADVANCED PLACEMENT

Students are encouraged to enter the most advanced courses for which they are prepared by previous study. For information about advanced placement and credit, either with or without special examinations, see page 112.

USE OF THE SUMMER VACATION

Students are encouraged to make constructive use of the long summer vacation, supplementing through it the work and activities of the academic year. Several possibilities are recognized, for example, field or laboratory work at the College or elsewhere, travel, vocational experience, and serious and ordered reading. Regardless of their specific activities, all students are expected to undertake some serious reading each summer. To assist them, each of the departments makes available a reading list designed to enrich the student's knowledge of her major subject.

SUMMER INTERNSHIPS

The College joins with Vassar College in sponsoring a Summer Internship in Government that enables students from various departments to learn at first hand of the operations of the Federal Government. Students who are accepted for the program spend six weeks in Washington during the summer preceding their senior year. A director arranges assignments in various government bureaus, Congressional offices, and headquarters of the Democatic and Republican National Committees, and meets regularly with the interns during the six weeks.

The College participates in the Internship Program in Economics, sponsored by the National Association of Business Economists and initiated at Wellesley College. Economics majors who meet the high standards set for candidates in this program may be placed in salaried positions in private or public agencies in all parts of the country, during the summer following the junior year, to carry out applied economic research under the direction of senior economists.

THE JUNIOR YEAR ABROAD

Qualified students may apply for admission to the various groups spending the junior year in Europe. Wellesley students may study in

Paris under the plan sponsored by Sweet Briar College, or in Munich under the auspices of Wayne University, or in Florence, Geneva, Madrid or Paris with groups organized by Smith College. A student who wishes to join one of these groups must have a good academic record and competence in the language of the country in which she plans to study; in general two years of study of the language at the college level are necessary to provide adequate preparation. In advance of making application, a student must have the approval of the chairman of her major department and of her class dean.

PREPARATION FOR GRADUATE STUDY

College Teaching and Research

A student who wishes to enter college teaching and research will find that the undergraduate work of the College provides preparation for graduate study leading to advanced degrees in the arts and sciences. She should consult as early as possible the chairman of her major department, or of the department in which she hopes to pursue graduate study, to learn which courses in her field of special interest and which foreign languages will be most useful to her. It should be noted that for graduate study in many fields a reading knowledge of two specified languages is required. The student will find her class dean, her faculty adviser, the chairmen of departments and the Placement Office helpful in locating information about graduate schools.

Other Professions

In her undergraduate work a student may meet the requirements for the degree of Bachelor of Arts and at the same time prepare to enter professional schools, for example, architecture, law, medicine, social service administration, teaching. A sound education in the liberal arts is considered the best preparation for admission to most professional schools but a student who is interested in any one of the professions should consult her class dean to discuss the particular emphasis which she should make in her undergraduate program. She should also consult as soon as possible the catalogue of the graduate school which she has chosen.

Teaching in Schools

Some teaching positions in public as well as in private schools are open to college graduates without further study, although a year of graduate work is required for teachers in many public school systems. Courses in the principles and history of education given by the department of Education help a student to prepare for teaching and to meet some of the requirements for certification. They also serve as prerequisites for graduate work in education.

Wellesley is one of a group of colleges affiliated with the Harvard Graduate School of Education in a program which affords graduates of the cooperating colleges special opportunities for practice teaching in the summer, for paid teaching internships during the regular school year, and for graduate study at Harvard.

A student who cannot plan for graduate work immediately after college is advised to consider enrolling, during the summer following her junior year, in one of several summer programs which provide courses in methods in conjunction with supervised practice teaching.

A student who intends to teach should consult the chairman of the Education department about requirements for certification and ways of preparing to meet them.

MEDICAL SCHOOL

In general, the minimum requirements for admission to recognized medical schools can be met by two year courses in chemistry (which must include a year course in organic chemistry), a year course in physics, and a year course in zoology. Because there is some variation in the minimum requirements and some medical schools have specific requirements, a student should consult the most recent catalogues of the particular medical schools in which she is interested.

Many students planning to study medicine elect two pre-medical sciences in the freshman year. At present considerable emphasis is being placed by the medical schools on the importance of a liberal education as a preparation for medical studies and it is possible to fulfill the minimum requirements for medical school and to take the general examination in a field not required for entrance. A student, therefore, is advised to major in the field of her greatest interest. Students wishing to prepare for medical school should consult Professor Jean V. Crawford, department of Chemistry.

HOSPITAL AND PUBLIC HEALTH WORK

A student planning to prepare for work in hospital or public health laboratories should begin both chemistry and zoology in the freshman year in order to have the necessary foundation for advanced courses in these subjects and for courses in bacteriology. Students should consult their class deans for advice in planning their programs.

THE CIVIL SERVICE

A student wishing to qualify for examinations offered by the United States Civil Service Commission or various state and local civil service agencies should consult her major department and the Placement Office

about current requirements. For many positions some work in statistics and public administration is desirable; graduate study is a qualification for many of the more important posts.

GRADUATE FELLOWSHIPS

Fellowships for Alumnae of Wellesley College

Four graduate fellowships providing stipends which range from $2,000-$2,500 are open only to alumnae of Wellesley College: the Horton-Hallowell Fellowship for a candidate for the Ph.D. degree; the Fanny Bullock Workman Scholarship for a student who has completed one year of graduate study; and, awarded in alternate years, the Vida Dutton Scudder Fellowship for a graduate student in the field of social science, political science, or literature, and the Edna V. Moffett Scholarship in the field of history.

Graduates of the College are eligible to compete for three fellowships of $2,000 which are awarded annually by the American School of Classical Studies in Athens. Qualified graduates are exempt from any charge for tuition at the American School of Classical Studies in Athens or in Rome.

Fellowships and Assistantships for Alumnae of Any College

Several scholarships are available for candidates for the degree of Master of Arts at Wellesley College. Also, assistantships, which provide stipends of $1800, are available in certain science departments for candidates for the master's degree. Information may be obtained from the Secretary of the Committee on Graduate Instruction.

Four graduate fellowships for study at the institution of the candidate's choice are administered by Wellesley College and are open to alumnae of any college including Wellesley College. They provide stipends ranging from $500-$2,500. The Alice Freeman Palmer Fellowship is without restriction as to field; the Anne Louise Barrett Fellowship and, awarded in alternate years, the Harriet A. Shaw Scholarship are preferably for study in the field of music; the Amy Morris Homans Fellowships are for study in the field of physical education. Further information and application blanks may be obtained from the Secretary to the President. Application should be made by February 20.

REQUIREMENTS FOR THE DEGREE OF MASTER OF ARTS

A candidate for the degree of Master of Arts is required to complete 24 hours of graduate work, which may include a thesis embodying the results of original research. The program is arranged by the student's major department and is subject to the approval of the Committee on Graduate Instruction. A reading knowledge of French or German, to be tested by

examination *at entrance,* is required. Individual departments may require a second language. At least one year in residence is required of all candidates.

Some departments, but not all, accept candidates for the Master of Arts degree. The College does not maintain a program of courses for graduate students separate from those offered for undergraduates. Properly qualified graduate students are admitted to grade III courses, to seminars, and to course 350, Research or Independent Study.

Information regarding admission, living arrangements, graduate assistantships and scholarships will be found in the bulletin, *Graduate Study at Wellesley College,* which will be sent upon application to the Secretary of the Committee on Graduate Instruction.

COURSES OF INSTRUCTION

1963-1964

The following courses of instruction are offered by the several departments. The College reserves the right to withdraw any course not chosen by at least six students.

All courses are classified in grades I, II, III; grade I indicates elementary courses and grade III the most advanced courses. Grade I courses are numbered 100, etc.; grade II courses 200, etc.; grade III courses 300, etc.

The first semester is indicated by (1) following the course number, the second semester by (2). Courses not so designated are year courses. The number of hours of credit appears in parentheses following the course title. A semester course which carries three hours of credit requires approximately nine hours of work each week spent partly in class and partly in preparation. The amount of time scheduled for classes varies with the subject from two hours each week in many courses in the humanities and social sciences to three, four, or five scheduled hours in certain courses in foreign languages, in art and music, and in the sciences. A class period is sixty minutes in length. Classes are scheduled from Monday morning through late Friday afternoon.

ART

Professors: Bernard Chapman Heyl, M.F.A.; John McAndrew, M.Arch.; Teresa Grace Frisch, Ph.D.

Associate Professors: Elizabeth Holmes Frisch; Curtis Howard Shell, Ph.D. (Chairman); Jack Leonard Benson, Ph.D.

Instructors: Eugene Albert Carroll, M.A.; James Wilson Rayen, M.F.A.; Earl R. Flansburgh, M.Arch.; Sidney J. Hurwitz, M.F.A.; Jane Andrew Aiken, M.A.

Lecturer: Joan Crowell Siegfried, M.A.

Director of the Museum: Julia Gray Phelps, Ph.D.

Secretary: Jean Lilly Connery

History of Art

Many of the courses in art include some laboratory work in the one or more mediums with which the course is concerned. The department believes that laboratory training has great value in developing observation and understanding of artistic problems, and for this reason requires it of majoring students. It should be stated, however, that no particular natural aptitude is required and that the work is adjusted to the student's ability.

100. Introductory Course (6 hrs.)

The major styles in Western architecture, sculpture, and painting from Ancient Greece to c. 1800. A foundation for further study of the history of art.

Simple laboratory work (requiring no previous training or artistic skill) planned to give the student a greater understanding of artistic problems. Open without prerequisite to freshmen and sophomores. *The Staff*

201 (2). GREEK SCULPTURE (3 hrs.)

The development of Greek sculpture from its origins through the Hellenistic age. Study of focal monuments and artists in each successive period. Laboratory work, consisting largely of modeling and carving. Open to sophomores who have taken 100 and to juniors and seniors without prerequisite.

Mr. Benson, Mr. Hurwitz

202 (1). MEDIEVAL SCULPTURE (3 hrs.)

Western European sculpture of the Romanesque and Gothic periods, introduced by a brief study of pre-Romanesque art. Laboratory work consisting largely of modeling and carving. Prerequisite, same as for 201.

Miss Frisch, Mrs. Frisch

203 (2). MEDIEVAL ARCHITECTURE (3 hrs.)

The architecture of Western Europe from the Fall of Rome to the beginning of the Renaissance, with particular concentration on the great Romanesque and Gothic monuments. Occasional laboratory work. Prerequisite, same as for 201.

Mr. McAndrew, Mr. Flansburgh

207 (2). ART OF THE FAR EAST (3 hrs.)

A study of the art of India, China, and Japan, with particular emphasis on China. Open to juniors and seniors without prerequisite. *Miss Frisch*

209 (1). ART OF THE ROMAN EMPIRE (3 hrs.)

A study of Roman sculpture and pictorial tradition from early times to the Late Antique, with emphasis on the Late Republic and Early Empire as a critical formative period. Prerequisite, same as for 201. (Not given in 1963-64.)

Mr. Benson

215 (1). EUROPEAN ART THROUGH THE RENAISSANCE (3 hrs.)

The major movements in architecture, sculpture and especially painting from classical antiquity to about 1550. Open to sophomores who have taken History 101 or Italian 101 or 103, and to juniors and seniors who have not taken or are not taking Art 100. *Mr. Carroll*

216 (2). POST-RENAISSANCE AND MODERN ART (3 hrs.)

Western art from the beginning of the 17th century to the present. Open to sophomores who have taken 215 and to juniors and seniors who have not taken or are not taking 100 or 219. *Mr. Carroll*

219 (1). NINETEENTH CENTURY PAINTING (3 hrs.)

A study of painting of the 19th century in Europe and America with emphasis on France. Open to sophomores who have taken 100 and to juniors and seniors without prerequisite. Not open to students who have taken 216. *Miss Siegfried*

220 (2). PAINTING OF THE SEVENTEENTH AND EIGHTEENTH CENTURIES IN SOUTHERN EUROPE (3 hrs.)

Italian painting from Caravaggio through Tiepolo, and Spanish painting from El Greco through Goya. Open to sophomores who have taken 100, and to juniors and seniors without prerequisite. *Mr. Heyl*

221 (1). PAINTING OF THE SEVENTEENTH AND EIGHTEENTH CENTURIES IN NORTHERN EUROPE (3 hrs.)

Flemish, Dutch, and French painting of the 17th century; French and English painting of the 18th century. Prerequisite, same as for 220. Not open to students who have taken 216. *Mr. Heyl*

301 (2).* SEMINAR IN ANCIENT ART (3 hrs.)

Intensive study of one or more of the fundamental problems in the history of Ancient Art. Open to juniors and seniors who have taken 201 or 209. (Not given in 1963-64.) *Mr. Benson*

302 (1). ITALIAN PAINTING: THE FOURTEENTH AND FIFTEENTH CENTURIES (3 hrs.)

A brief exposition of late medieval style in Italian painting, followed by studies of selected artists whose work significantly illustrates the character of Early Renaissance style. Particular attention to Florentine masters. Laboratory work to be arranged. Open to juniors and seniors who have taken, or are taking, a grade II course in the department, and, by permission, to specially qualified students. *Mr. Shell, Mr. Hurwitz*

303 (2). ITALIAN PAINTING: THE SIXTEENTH CENTURY (3 hrs.)

Studies of the major masters of the High Renaissance style, followed by the examination of some selected Mannerist painters, and of those developments within 16th century painting which lead in the direction of the Baroque. Considerable attention to Venetian masters. Laboratory work to be arranged. Prerequisite, same as for 302. *Mr. Shell, Mr. Hurwitz*

304 (2). RENAISSANCE, BAROQUE, AND MODERN SCULPTURE (3 hrs.)

A study of the major sculptors from the 15th century to the present. Laboratory work to be arranged. Open to students who have taken 100 or 215 and, by permission, to specially qualified students. *Miss Siegfried, Mr. Rayen*

305 (2). MODERN PAINTING (3 hrs.)

A study of European and American painting in the 20th century. Prerequisite, same as for 302. Laboratory work to be arranged.

Mr. McAndrew, Mrs. Frisch

306 (1).* THE GRAPHIC ARTS FROM THE RENAISSANCE TO THE PRESENT (3 hrs.)

Emphasis on the styles of Dürer, Rembrandt, Goya, Picasso. Special attention to the influence of technique upon style. Laboratory instruction in the processes of woodcut, engraving, etching, lithography. Visits to collections.

* Offered in alternate years.

Open by permission to juniors and seniors who have taken a grade II course in the department. *Mr. Carroll, Mr. Hurwitz*

307 (2).* PROBLEMS IN MEDIEVAL STYLE AND TECHNIQUE (3 hrs.)

Study of selected manuscripts, mosaics, and wall paintings in Italy between the 4th and the 13th centuries, with experiments in the medium concerned, for close stylistic and technical analysis. Prerequisite, same as for 302. (Not offered in 1963-64.)

308 (2).* RENAISSANCE AND BAROQUE ARCHITECTURE (3 hrs.)

The Early and High Renaissance, Mannerist and Baroque styles of the 15th through the 18th centuries, with particular emphasis on Italy. Prerequisite, same as for 304. (Not offered in 1963-64.)

309 (1). MODERN ARCHITECTURE (3 hrs.)

The development of modern architecture in Europe and America in the last seventy years. Two periods of lecture and one of conference. Prerequisite, same as for 302. *Mr. McAndrew, Mr. Flansburgh*

311 (1). PAINTING OF NORTHERN EUROPE (3 hrs.)

The period from the late 14th century to the mid-16th century in France, Germany, and the Low Countries. Laboratory work to be arranged. Prerequisite, same as for 304. *Miss Siegfried, Mrs. Frisch*

325 (1). SEMINAR. THE NATURE AND CRITICISM OF ART (3 hrs.)

A study of various kinds of artistic analyses, and a consideration of problems in the theory and practice of criticism. Open by permission to seniors who have taken, or are taking, six additional hours of grade III. (Not given in 1963-64.) *Mr. Heyl*

330 (2). SEMINAR. ITALIAN PAINTING (3 hrs.)

Intensive study of one or more of the fundamental problems in the history of Italian painting. Open by permission to juniors and seniors who have taken 302 or 303. *Mr. Shell*

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open by permission to juniors and seniors who have taken, or are taking, a course of grade III.

STUDIO COURSES

As many as 12 hours of studio work may be counted toward the degree provided an equal number of hours in the history of art is counted. Studio work should ordinarily follow or be concurrent with work in the history of art; not more than 3 hours of studio work may be elected in advance of election of an equal number of hours in the history of art.

105 (1). DRAWING AND SCULPTURE (3 hrs.)

Introductory drawing and sculpture, with strong emphasis on basic forms. Abstract spatial problems as well as fundamental presentation of landscape and figure. Open to sophomores, juniors, and seniors and, by permission, to freshmen who have studied art before entering college. Four periods of class instruction and four of studio practice. *Mr. Rayen*

* Offered in alternate years.

106 (2). Introductory Painting and Design (3 hrs.)

Spatial and tonal problems partly abstract, partly representational, worked out in a variety of mediums and materials. Open to sophomores, juniors, and seniors and, by permission, to freshmen who have studied art before entering college. Five periods of class instruction and three of studio practice.

Mrs. Frisch, Mr. Rayen

206 (1). Watercolor and Oil Painting (3 hrs.)

Landscape, still life, and painting from model. Open to sophomores, juniors, and seniors who have taken 100, 105, or 106. Five periods of class instruction and three of studio practice. *Mrs. Frisch, Mr. Hurwitz*

208 (2). Design (3 hrs.)

The elements of visual communication, line, form, color, studied in relation to the special function or purpose which the work of art may be called upon to fulfill. Exploration of the potentialities and restrictions of the particular process or material. Open to sophomores, juniors, and seniors who have taken 105, 106, or 206. Five periods of class instruction and three of studio practice.

Mr. Hurwitz

300 (1). Advanced Painting. I (3 hrs.)

Clarification of various problems in the language of painting, dealt with largely through the oil medium. Individual problems. Open by permission to juniors and seniors who have taken at least one other studio course. Three periods. (Not offered in 1963-64.)

Directions for Election

Course 100 is the basic introductory course for later work in the department and is required, except by special permission, of majoring students. (See Exemption Examination, below.)

Students planning to major will be required to make adequate distribution in their elections in the different arts and different periods.

Students majoring in the department must elect at least 24 hours in the history of art.

A reading knowledge of French, German, or Italian, though not required, is very strongly recommended.

The attention of students is called to the interdepartmental major in Classical Archeology (see p. 49).

Placement and Exemption Examinations

Freshmen and sophomores, who secure the permission of the chairman, may qualify for entrance to grade II in art by passing an exemption examination, thus waiving the requirement of course 100.

Related Courses

Related courses may be chosen from many departments: English, History, Music, Philosophy, departments of foreign language and literature.

By careful choice of related courses, a student majoring in art may plan a field of concentration emphasizing one century or period such as Ancient, Medieval, Renaissance, or Modern. Students interested in such a plan should consult the chairman of the department as early as possible.

ASTRONOMY

Professor: SARAH JEANNETTE HILL, PH.D. (Chairman)

Instructor: POLLY HANSON VANEK, M.S.

101. INTRODUCTION TO ASTRONOMY (6 hrs.)

The nature and organization of the astronomical universe: the sun and stars, solar system, stellar groups, nebulae, galaxies. Stress on observational evidence for astronomical concepts. Open to freshmen and sophomores who are not eligible for 102, and to juniors and seniors. Two periods of lecture and discussion, one two-hour laboratory period, and some evening work at the Observatory, unscheduled, for observation and use of the telescopes. *Miss Hill*

102. INTRODUCTION TO ASTRONOMY (6 hrs.)

The same subject matter as in 101, but the treatment is more quantitative and the foundations are more thoroughly explored. Prerequisite or corequisite, Mathematics 106 or 109, or 4 admission units in Mathematics. Two periods of lecture and discussion weekly with a third period biweekly, one two-hour laboratory, and some evening work at the Observatory, unscheduled, for observation and use of the telescopes. *Mrs. Vanek*

200 (2). MODERN PHYSICS (3 hrs.)

For description and prerequisite, see Physics 200.

201 (1). ELECTRICITY AND OPTICS (3 hrs.)

For description and prerequisite, see Physics 201.

202. DIFFERENTIAL AND INTEGRAL CALCULUS (6 hrs.)

For description and prerequisite, see Mathematics 202.

203 (1). STELLAR SYSTEMS (3 hrs.)

Star clusters, stellar evolution, the Milky Way galaxy, the universe of galaxies. Emphasis upon contemporary problems in optical and radio astronomy. Prerequisite, 101 or 102. *Mrs. Vanek*

205 (2).* INTRODUCTION TO ASTROPHYSICS (3 hrs.)

The physical nature of the sun and stars derived from analysis of their spectra. Prerequisite, 101 or 102, and prerequisite or corequisite, Mathematics 106 or 109. (Not offered in 1963-64.) *The Staff*

206 (2).* THE ANALYSIS OF OBSERVATIONAL DATA (3 hrs.)

Measurement and reduction of photographic plates. Theory of least squares. Numerical and approximate methods. Prerequisite, Mathematics 106 or 109. *Miss Hill*

302 (2). GALACTIC STRUCTURE (3 hrs.)

The methods used in studying the dynamics and constitution of the Milky Way galaxy. Statistical astronomy, photometry, galactic rotation. Prerequisite, 101 or 102, and Mathematics 202. *Mrs. Vanek*

* Offered in alternate years.

303 (1). Differential Equations (3 hrs.)
For description and prerequisite, see Mathematics 303.

305 (1). Selected Topics (3 hrs.)
Intensive study of a specific field. Subject for 1963-64: Galaxies. Prerequisite, 101 or 102, and Mathematics 202. *Miss Hill*

350. Research or Independent Study (3 or 6 hrs.)
Open to seniors by permission.

Directions for Election

The major in astronomy is based upon at least 18 hours of astronomy, Mathematics 303 and Physics 200, and 201, and normally includes some grade III work in physics. Six hours of astronomy and six hours of mathematics should ordinarily be completed by the end of the sophomore year.

Related or supplementary courses for the major may be elected in the departments of Mathematics and Physics, and may also include Geology 101 and Interdepartmental 218.

Students considering graduate work in astronomy are urged to acquire a reading knowledge of French, and Russian or German.

BIBLICAL HISTORY, LITERATURE, AND INTERPRETATION

Professors: Ernest René Lacheman, b.d., ph.d.; Herbert Morrison Gale, s.t.b., ph.d. (Chairman); Fred Denbeaux, b.d., s.t.m.; Mary Lucetta Mowry, b.d., ph.d., l.h.d.

Assistant Professors: Charles Arthur Mann Hall,[1] b.d.; Wayne Gilbert Rollins, b.d., ph.d.; Roger Alan Johnson, b.d.; Benjamin Charles Milner, Jr., b.d., m.a.

Instructors: Alan Wilkin Jenks, b.d.; John Kenneth Kuntz, b.d., th.d.; Norman Richard Petersen, Jr., s.t.b.

Secretary: Lillian Warren Moseley

The requirement in Biblical history is met by course 104. Students with a knowledge of Greek may substitute 210 for the second semester of 104.

104. Studies in the Old and New Testaments (6 hrs.)
Basic material: selected parts of the Old Testament; the Gospels of Matthew, Mark, and Luke. Aim: to acquire a knowledge of these materials, of their historical-critical analysis, of the rise of the Hebrew-Christian tradition and the relevance of this tradition to the individual and society. Required of sophomores except as indicated above. *The Staff*

203. Elementary Hebrew (6 hrs.)
The elements of Biblical Hebrew grammar and syntax, with practice in translation and the memorizing of a vocabulary. Readings of selections from the Old Testament. Open to juniors and seniors by permission. (Not given in 1963-64.) *Mr. Jenks*

204 (1) (2). The Beginnings of Christianity (3 hrs.)
A study of the emergence of the Christian movement with special emphasis upon those experiences and convictions which determined its distinctive char-

[1] Absent on leave.

acter. Intensive analysis of the thought of the Apostle Paul. Some study of other New Testament documents, especially the *Gospel of John*. Prerequisite, 104 or 210. *Mr. Gale*

206 (1). THE RENAISSANCE OF RELIGION IN THE LATER HISTORY OF ISRAEL (3 hrs.)

A study of the literature of influential movements between the Exile and 70 A.D. Emphasis on *Ezekiel, Ezra-Nehemiah*, non-canonical literature including the Dead Sea Scrolls. Prerequisite, 104 or 210. *Mr. Lacheman*

208 (1). SURVEY OF THE APPLICATION OF CHRISTIAN ETHICS TO SOCIAL PROBLEMS (3 hrs.)

A study of the historical and theological resources of the Judeo-Christian heritage for making concrete ethical decisions. Special consideration of contemporary problems of church and state, of social and racial groups, and of the family. Open to juniors and seniors who have taken or are taking Economics 101, Political Science 100, Sociology 102, or any course in medieval or modern history. *Mr. Johnson*

210 (2). THE FIRST THREE GOSPELS IN GREEK (3 hrs.)

Same material as the second semester of 104, planned for those students who, in fulfilling the Biblical history requirement, prefer to study the Gospels in Greek rather than in English translation. Open to students who have taken the first semester of 104 and have taken or are taking a grade II Greek course. Students choosing this way of fulfilling the requirement in Biblical history may postpone the work until their junior year without special permission. *Mr. Rollins*

213 (2).* JUDAISM FROM PHILO TO SPINOZA (3 hrs.)

The history of Judaism in its relation to the Graeco-Roman world, Christendom and Islam. Reading (in translation) of significant portions of Talmudic, Midrashic, Poetic, and speculative literatures. Prerequisite, 104 or 210. (Not offered in 1963-64.) *Mr. Lacheman*

216 (1). HISTORY OF CHRISTIAN THOUGHT (3 hrs.)

A survey of the interaction of the Biblical world view with classical culture and the consequent emergence of specifically Christian thought. The Church Fathers, the theology of the Creeds, Augustine, and medieval theology. Prerequisite, 104 or 210. *Mr. Denbeaux*

217 (2). HISTORY OF CHRISTIAN THOUGHT (3 hrs.)

The Reformation and the modern world. Studies in the religious thought of the 16th and 19th centuries, primarily. The origin and development of Protestantism, the Episcopal tradition, and the reformation of Roman Catholicism. The 19th century and the emergence of modern theology as influenced by Kierkegaard, Darwin, Marx, Dostoyevsky, and Freud. Prerequisite, 104 or 210. *Mr. Denbeaux*

218 (2). HISTORY OF CHRISTIAN THOUGHT IN AMERICA (3 hrs.)

The history of religion from its Puritan beginnings to the present. The con-

* Offered in alternate years.

tinuing encounter between European theological and ecclesiastical traditions and the developing American culture. Examination of this process in major thinkers from Jonathan Edwards through Reinhold Niebuhr and Paul Tillich. Prerequisite, 104 or 210. *Mr. Milner*

219 (1). History of Christian Thought in the Twentieth Century (3 hrs.)

An examination of recent theology, emphasizing the development from Harnack through Barth, and its contribution to the historical movement from orthodoxy to liberalism and neo-orthodoxy. *Mr. Milner*

251 (1). The Religions of the Far East (3 hrs.)

The history and development of scriptures, theologies, institutions and cultic practices of Hinduism, Buddhism, Taoism, Confucianism, and Shintoism. Prerequisite, 104 or 210. *Miss Mowry*

252 (2). The Religions of the Middle East (3 hrs.)

The history and development of scriptures, theologies, institutions and cultic practices of Zoroastrianism and Islam. Some consideration of their more primitive antecedents. Their relationship to Judaism and Christianity. Prerequisite, 104 or 210. *Miss Mowry*

301 (2).* Seminar. The Religions of the Ancient Near East (3 hrs.)

Studies in Babylonian, Greek, and Roman theology. Prerequisite, 206. (Not offered in 1963-64.) *Mr. Lacheman*

306 (2).* Seminar in the Old Testament (3 hrs.)

Systematic study of important religious ideas of the Old Testament. Prerequisite, 206. *Mr. Lacheman*

307 (1). Seminar. New Testament Christianity Within its Cultural Context (3 hrs.)

The confrontation of the early Church with the cultural forces of the Hellenistic-Roman world and the resulting problems of communication. Intensive study of the effect of this on Christian thought and expression in such areas as Christology, eschatology, soteriology, and Church Order. Prerequisite, 204. *Miss Mowry*

308 (2). Seminar in the History of New Testament Thought (3 hrs.)

An examination of a theological problem concerning the nature of God, of man, of evil, or of time as formulated and clarified in New Testament writings and related documents. Prerequisite, 204. *Mr. Rollins*

310 (1). Seminar in Theology and History (3 hrs.)

Studies in the philosophy of history as seen in such thinkers as Augustine, Hegel, Toynbee. The significance of these positions for contemporary Judeo-Christian theology. Prerequisite, 216. (Not offered in 1963-64.)

311 (1) (2). Seminar in Theology and Literature (3 hrs.)

An examination of the influence of the poetic imagination on the formation and development of historical theology. The work of a major theological

* Offered in alternate years.

figure to be read in relation to analogies drawn from the fields of literature and drama. Prerequisite, 216. *Mr. Denbeaux*

312 (2). SEMINAR IN SYMBOL AND MYTH (3 hrs.)

An examination of the nature and origin of religious language, focusing on the thought of Paul Tillich, but with reference to related studies of the problem. Prerequisite, 216. *Mr. Johnson*

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open to seniors by permission.

DIRECTIONS FOR ELECTION

Considerable freedom is possible within the major. In order, however, to provide cultural scope and to create the proper perspectives of criticism, a sound total program for the major shall include three hours of work beyond the sophomore requirement in at least two of the three areas upon which the department places particular emphasis: (1) Old Testament, (2) New Testament, (3) The History of Christian Thought.

Students interested in the original language of the New Testament are encouraged to confer with the Greek Department.

PLACEMENT AND EXEMPTION EXAMINATIONS

The requirement in Biblical history may be met in some cases by the passing of an exemption examination. Exemption, when granted, will permit election of grade II courses in the department.

BOTANY AND BACTERIOLOGY

Professors: HARRIET BALDWIN CREIGHTON, PH.D. (Chairman); DELAPHINE GRACE ROSA WYCKOFF, PH.D.
Instructors: DOROTHY JANE CROUCH, PH.D.; JOSEPH PETER MASCARENHAS, PH.D.
Graduate Assistants: DIANA MARGARET STAPLES, B.SC.; ANNABELLE BIRROW, B.A.
Custodian: FRANCES KNIBBS FOLSOM
Secretary: JACQUELINE MARIE BUTLER

104 (1). BIOLOGY (3 hrs.)

Study of life processes, primarily at the cellular level, through experimentation and analysis; consideration of mechanisms of evolution and other unifying concepts of biology. Same as Zoology 104 (1). Five periods of lecture, laboratory, and discussion. It is recommended that this course be followed by Botany 105 (2) or Zoology 105 (2), or, by permission, a Grade II course. *The Staff*

105 (2). PLANT SCIENCE (3 hrs.)

Study of functioning plants, their growth, development, and reproduction, by experimentation and analysis. Prerequisite, Botany-Zoology 104 (1) or Zoology 101 or 102. Five periods of lecture, laboratory, and discussion.
The Staff

201 (1). LANDSCAPE GARDENING (3 hrs.)

A study of cultivated plants with emphasis on their use in landscape gardening. Practice in applying the principles of design to gardens and to home and community plantings. Open to students who have taken 101, 103, or 105, and

to juniors and seniors without prerequisite. Counts as a non-laboratory science to meet part of the distribution requirement in Group III. Four periods. *Miss Creighton*

204 (2). Basic Horticulture (3 hrs.)

The fundamentals of cultivation and propagation of house and garden plants and the methods of control of plant pests and diseases. Prerequisite, same as for 201. Four periods, two of lecture and discussion and two of practice in greenhouse and laboratory. *Miss Creighton*

205 (1). Microbiology (3 hrs.)

The structure, growth, reproduction and activities of yeasts, molds and bacteria, their interactions with the environment and their economic uses. Prerequisite, six hours in Group III. Two periods of lecture, discussion, and demonstration. May be taken either (a) as a non-laboratory science with special readings and papers required, or (b) as a laboratory science with two periods of laboratory work. *Mrs. Wyckoff, Miss Crouch*

206 (1). Ecology (3 hrs.)

Studies of plants and animals in the field, laboratories, and greenhouses, emphasizing the bases for the derivation of selected principles of ecology. Same as Zoology 206 (1). Prerequisite, Botany 101 or 105 (2), or Zoology 101 or 105 (2), or Interdepartmental 103. Open to juniors and seniors without prerequisite. Five periods. *Mr. Shoop*

207 (1). Plant Resources (3 hrs.)

A study of the agricultural and forest resources of the world with emphasis on those of the United States; the scientific basis for the production of plants for foods, fibers and the raw materials of industry; the influences of soil, climatic and biological factors on the growth of economically important plants. Prerequisite, same as for 201. Counts as a non-laboratory science to meet part of the Group III distribution requirement. Two periods. (Not offered in 1963-64.) *The Staff*

302 (1).* Plant Structure (3 hrs.)

A study of cells, tissues, and organs, their functions and roles in the development of form in the organism. Practice in the preparation of plant tissues for microscopic study. Prerequisite, 12 hours in the department. Four periods of lecture, discussion and laboratory. (Not offered in 1963-64.) *Miss Creighton*

303 (2).* Genetics (3 hrs.)

A study of inheritance, its cellular basis, the methods by which knowledge of heredity is obtained, and the application of this knowledge to biological problems. Laboratory experimentation with plants. Open to juniors and seniors who have taken six hours in the department and six additional hours in botany or zoology. Four periods of lecture, discussion and laboratory. (Not offered in 1963-64.) *Miss Creighton*

304 (2). Plant Diseases (3 hrs.)

Pathogenic fungi, their structure, their physiological processes, and their ef-

* Offered in alternate years.

fects on ornamental and economically important plants. Practice in the cultivation of fungi and methods of combating plant diseases. Prerequisite, same as for 302. Four periods of lecture and of laboratory, field, or greenhouse. (Not offered in 1963-64.)

306.* PHYSIOLOGY (6 hrs.)

First semester: Nature of protoplasm; processes of plant cells such as photosynthesis, nutrition and respiration. Second semester: physiological processes in growth and development of green plants; plant hormones, photoperiodism. Open to juniors and seniors who have taken six hours of grade II in the department and who have taken or are taking six hours of chemistry or physics. Four periods of lecture, discussion, and laboratory. *Mr. Mascarenhas*

308 (2). GENERAL BACTERIOLOGY (3 hrs.)

Study of the detailed structure of bacteria, their physiological processes and their relation to human welfare. Emphasis on current microbiological techniques. Open to students who have taken six hours of chemistry or physical science and either six hours of botany, zoology, or biology, or a second course in chemistry. Five periods of lecture and laboratory. *Mrs. Wyckoff, Miss Crouch*

312 (1). ADVANCED BACTERIOLOGY AND IMMUNOLOGY (3 hrs.)

Systematic study of bacteria, including serological relationships and roles in disease and immunity. Consideration of recent developments in bacteriology. Practice in bacteriological and serological techniques and procedures. Prerequisite, 308. Four periods of lecture and laboratory.

Mrs. Wyckoff, Miss Crouch

315 (2). VIROLOGY (3 hrs.)

The nature of viruses and their interaction with plant, animal, and bacterial hosts. Open to seniors who have taken six hours from the following group of courses: 205, 304, 308, 312, or by special permission. Two periods.

Mrs. Wyckoff, Miss Crouch

322. SEMINAR (3 or 6 hrs.)

A field of botany or bacteriology scrutinized from standpoints of modern achievement, methods of investigation, and the theories and reasoning involved in reaching present-day conclusions. Open to graduate students and to seniors by permission. *The Staff*

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open to juniors and seniors by permission.

DIRECTIONS FOR ELECTION

The combination of courses for the major will depend upon whether the student's interest is greater in general plant science or in microbiology. Courses in chemistry, zoology, physics, and geology are suggested for related work. For majors chemistry is strongly recommended. Art 309 may be considered a related course for the student whose interest is in landscape gardening.

The department will admit properly qualified freshmen and sophomores to 204, 205, 206, after consultation with the chairman. An exemption examination may be required.

* Offered in alternate years.

SCHOLARSHIP

At the Marine Biological Laboratory at Woods Hole (or at a biological field station approved by the student's major department), a scholarship is open to students who are returning to Wellesley. The Chairman of the Department should be consulted before February 15.

CHEMISTRY

Professor: JEAN VEGHTE CRAWFORD, PH.D. (Chairman)
Associate Professors: ELEANOR RUDD WEBSTER, PH.D.; ELIZABETH JANE ROCK, PH.D.; CLIFFORD RAYMOND NOLL, JR., PH.D.
Assistant Professor: KAY FRANCES KOCH, PH.D.
Instructor: EMILY PITCHER DUDEK, PH.D.
Graduate Assistants: WEI LIU, B.S.; NAGAKO KURIBAYASHI, B.S.; YUAN-YUAN HSIEH, B.S.

Custodian: EMILY MAY HOPKINS, M.A.

101. INTRODUCTORY COLLEGE CHEMISTRY (6 hrs.)

A study of the structure and properties of matter and of the fundamental laws and theories of chemistry. Open to students who do not present chemistry for admission. Two and one-half periods of lecture and discussion and one three-period laboratory appointment. *Mr. Noll*

104. GENERAL CHEMISTRY (6 hrs.)

Study of atomic structure, the chemical bond, and the fundamental chemical principles underlying the reactions of inorganic and organic compounds. Open to students who offer chemistry for admission. Two periods of lecture and one three-period laboratory appointment. *Miss Rock, Miss Webster*

203 (1). IDENTIFICATION OF ELEMENTS AND COMPOUNDS (3 hrs.)

Physical and chemical properties of some important elements and compounds, both inorganic and organic; emphasis on the relationship between structure and properties. Laboratory work: identification of anions, cations and common classes of organic substances. Prerequisite, 101. Open to qualified freshmen by permission. Two periods of lecture and one three-period laboratory appointment. *Miss Koch*

204 (2). ELEMENTARY QUANTITATIVE ANALYSIS (3 hrs.)

The fundamental theory and practice of quantitative analysis applied to both inorganic and organic compounds. Prerequisite, 104 or 203. One period of lecture and two three-period laboratory appointments. *Miss Koch*

205 (1). ORGANIC CHEMISTRY (3 hrs.)

Systematic study of the fundamental classes of organic compounds with emphasis on their interconversion. Prerequisite, 104 or 203. Two periods of lecture and one three-period laboratory appointment. *Miss Crawford*

300 (2). ORGANIC CHEMISTRY (3 hrs.)

Mechanisms of organic reactions. Laboratory work: synthesis and identification of organic compounds. Prerequisite, 205. Two periods of lecture and one three-period laboratory appointment. *Miss Crawford*

304 (1). GENERAL QUANTITATIVE ANALYSIS (3 hrs.)

Subject matter similar to that of 204 but presented from a more advanced point of view. Prerequisite, 205. One period of lecture and two three-period laboratory appointments. *Mrs. Dudek*

305. PHYSICAL CHEMISTRY (6 hrs.)

The laws and theories of matter in its various states of aggregation, chemical thermodynamics, chemical equilibrium, reaction velocity, electrochemistry, and theories of atomic and molecular structure. Prerequisite: either Chemistry 204 and 205, or Chemistry 304; Physics 101, 104, or 105; Mathematics 202 or, by special arrangement, 106 or 107. Two periods of lecture and discussion and one three-period laboratory appointment. The first semester may be elected independently. *Miss Rock*

307 (2). INORGANIC CHEMISTRY (3 hrs.)

An advanced study of a variety of inorganic substances and an interpretation of their properties in the light of recent theories of atomic and molecular structure. Prerequisite, either Chemistry 204 and 205, or Chemistry 304. *Mrs. Dudek*

308. BIOCHEMISTRY (6 hrs.)

Structure, function, and evolution of biological molecules. Chemistry of enzyme-catalyzed reactions. Intermediary metabolism. Photosynthesis. Prerequisite, either Chemistry 204 and 205, or Chemistry 304; and a year of college botany, zoology or biological science. Two periods of lecture and discussion and one three-period laboratory appointment. The first semester may be elected separately. *Mr. Noll*

312 (1). USE OF THE LITERATURE OF CHEMISTRY (1 hr.)

An introduction to the published source materials of chemistry and to their use in advanced work and in research. Prerequisite, same as for 307. *The Staff*

313 (1). ADVANCED ORGANIC CHEMISTRY (3 hrs.)

A study of an advanced topic in organic chemistry such as stereochemistry, heterocyclic chemistry, reaction mechanisms, or the chemistry of natural products. Ordinarily a different subject each year. Prerequisite, 300; prerequisite or corequisite 204 or 304. Two periods of lecture and discussion. *Miss Koch*

314 (2). INSTRUMENTAL ANALYSIS (3 hrs.)

Principles and practice of instrumental methods such as absorption and emission spectrometry, electroanalysis, and chromatography. Open to students who have taken or are taking college physics and who have taken either Chemistry 204 and 205, or Chemistry 304. One period of lecture and two three-period laboratory appointments. *Mrs. Dudek*

315 (2). ADVANCED ORGANIC LABORATORY (3 hrs.)

Synthesis and characterization of organic compounds; use of vacuum, chromatographic and spectral techniques. Prerequisite, either Chemistry 204 or 304, and Chemistry 300. One period of lecture and two three-period laboratory appointments. *Miss Koch*

316 (1). CHEMICAL THEORY (3 hrs.)

Selected topics in the development of modern chemistry chosen to illustrate major conceptual advances in one or more branches of the field. Subject to be announced. Open by permission to juniors and seniors. *Mrs. Dudek*

320. SEMINAR (2 hrs.)

Recent developments in chemistry. Inorganic, organic, physical and biochemistry studied in successive semesters. Open to graduate students. May be taken for two, three or four semesters and may be begun either semester. *The Staff*

350. RESEARCH OR INDEPENDENT STUDY (3 to 6 hrs.)

Open by permission to students who have taken at least 18 hours in chemistry.

DIRECTIONS FOR ELECTION

All students majoring in chemistry are required to complete 204 or 304, 205, 300, and 305, and are advised to elect 307. Any other courses in the department may be added to complete the 24-hour major. A year of college physics and one year of college mathematics, which must include calculus, are required. In addition students are advised to acquire a reading knowledge of German and of either French or Russian.

Premedical students are referred to the requirements as given on page 31.

The American Chemical Society has established a set of requirements which it considers essential for the training of chemists. Students wishing to meet the standard of an accredited chemist as defined by this society should consult the Chemistry Department.

PLACEMENT AND EXEMPTION EXAMINATIONS

Unusually well-qualified students may apply for an examination covering the year's work in Chemistry 101. (A college textbook of general chemistry should be used in preparation for this examination.) The satisfactory completion of this examination will be accepted as the equivalent of Chemistry 101 as a prerequisite for advanced work in the department.

CLASSICAL ARCHEOLOGY

Director: BARBARA PHILIPPA MCCARTHY, *Professor of Greek*

An interdepartmental major in Classical Archeology gives opportunity for a study of classical civilization through its art, literature, and history, with emphasis on either the Greek or Roman period.

The field of concentration (42 hours) should normally include ancient history (6 hours); art (12 to 15 hours); Greek or Latin language and literature (18 to 21 hours); independent study of an archeological topic correlating work in art and literature (3 to 6 hours). In addition to the work elected in either Greek or Latin, the candidate must give evidence of a working knowledge of the second language.

ECONOMICS

Professor: RICHARD VERNON CLEMENCE, PH.D.
Associate Professor: CAROLYN SHAW BELL, PH.D. (Chairman)
Assistant Professor: MARSHALL IRWIN GOLDMAN,[3] PH.D.
Instructors: JAN PARKER, M.A.; JOEN ELIZABETH GREENWOOD, M.A.; SHIRLEY MONTAG ALMON, M.A.; DAVID G. FUNK,[5] B.A.

Secretary: MILDRED BOND REMSEN

The department has developed an undergraduate tutorial program in connection with Economics 101. Specially qualified senior majors are selected as tutors and conduct weekly discussion meetings for freshmen. Throughout the year, members of the department supervise a special course of independent study for the senior tutors.

101.† SURVEY OF MODERN ECONOMICS (6 hrs.)

An introduction to the major principles and problems of economic science—the study of the ways people make a living—with special reference to the United States. Organization and operation of American business; individual and family income; money and banking; prosperity and depression; nature and causes of inflation; labor-management relations; government taxing and spending; foreign trade and foreign aid; comparisons of the American economy with others. Open to all undergraduates. *The Staff*

201 (1). ECONOMIC ANALYSIS (3 hrs.)

The basic techniques of modern analysis applicable to problems of income, output, employment, and prices. Fundamentals of economic theory and method. Prerequisite, 101. *Mr. Clemence*

204 (2). ECONOMIC HISTORY OF THE UNITED STATES (3 hrs.)

Economic change in America: the transformation of an agricultural economy; the course of the Industrial Revolution; role of public and private institutions in the process of economic change. Open to sophomores, juniors, and seniors who have taken or are taking 101. *Miss Greenwood*

205 (1) (2). CORPORATIONS AND BUSINESS ENTERPRISE (3 hrs.)

The development of the modern corporation, and its place in the economy. Corporate organization and management; corporate securities; the stock market; investment and speculation; relations of the corporation with employees, customers, owners, and government agencies. Prerequisite, same as for 204.
Miss Greenwood, Mr. Funk

207 (2). LABOR ECONOMICS (3 hrs.)

Activities and policies relating to American labor. Growth and composition of the labor force. Labor unions and collective bargaining. Public policy; social legislation. Prerequisite, same as for 204. *Mr. Funk*

[3] Absent on leave for the second semester.
[5] Appointed for the second semester only.
† Students may begin the course in either semester. Credit will be given for the course only after completion of both semesters.

211 (1) (2). INTRODUCTION TO SOCIAL AND ECONOMIC STATISTICS (3 hrs.)

A non-mathematical course in basic methods of statistical description and inference in the social sciences. Measures of central tendency and dispersion. Probability, sampling, simple correlation, index numbers, and time series. Laboratory work with calculating machines. Prerequisite, same as for 204. (For mathematical statistics, see Mathematics 205.) *Miss Parker*

212 (2). ECONOMICS OF ACCOUNTING (3 hrs.)

A survey of the fundamental principles of accounting; problems in accounting technique. Emphasis on the relation of accounting theory and practice to economic theory and contemporary economic problems. Aim: to enable the student to interpret and utilize accounting data in other fields of economics and in the analysis of public policy. Prerequisite, same as for 204. *Mrs. Bell*

220 (1). MONEY AND BANKING (3 hrs.)

The development and role of money and credit in a modern economy. Operations of commercial banks, the Federal Reserve System, and non-bank financial intermediaries. Monetary models. Analysis of monetary policy in the United States since 1913. Current domestic and international monetary problems. Prerequisite, 101. *Miss Parker*

301 (1). COMPARATIVE ECONOMIC SYSTEMS (3 hrs.)

Economic processes and goals of alternative types of economic systems. Study of functioning economies, illustrative of capitalism, socialism, communism, fascism. Open to juniors and seniors who have taken 101 and have taken or are taking a grade II course in economics, history, political science, or sociology. *Mr. Goldman*

302 (1). ECONOMIC DEVELOPMENT (3 hrs.)

Theories of economic development, and their application to the growth of modern nations. Comparative rates of growth as related to economic institutions and policies. Special problems of the less developed countries, and their significance to the United States. Open to juniors and seniors who have taken 101 and six additional hours in the department. *Mr. Goldman*

303 (2). ECONOMIC FLUCTUATIONS (3 hrs.)

Theoretical, statistical, and historical analysis of the capitalist process. Seasonal variation, cycles, and trends. Emphasis on major fluctuations and their relations to public policies. Prerequisite, 201 and 211, or by permission. *Mr. Clemence*

305 (1). THE STRUCTURE OF AMERICAN INDUSTRY (3 hrs.)

The organization and development of representative industries in agricultural and industrial production and distribution. Resources and production, markets and prices. Economic aspects of public policy in the regulation of business. Prerequisite, 201 or 205. *Mrs. Almon*

307 (1). THE ECONOMICS OF CONSUMPTION (3 hrs.)

Analysis of wants and choices of consumers; income distribution and consumption patterns; marketing in its relation to consumers; legislative influ-

ences; the impact of consumption decisions on the economy. Open to students who have taken or are taking 211. *Mrs. Bell*

310 (2). PUBLIC FINANCE (3 hrs.)

Principles, practices, and economic effects of government expenditure, revenue, and debt with special emphasis upon taxation in the United States. Current issues of fiscal policy and reform at the federal, state, and local levels of government. Prerequisite, 220 or by permission. *Miss Parker*

312 (2).* ECONOMIC STATISTICS (3 hrs.)

Further development of techniques studied in 211. Investigation of an economic problem susceptible of statistical analysis. Design of the project, collection and tabulation of data, analysis and report of results. Open to juniors and seniors who have taken 211 or, by permission, to students who have taken Mathematics 205, and have taken or are taking any other course of grade II in economics. (Not offered in 1963-64.)

314 (2). INTERNATIONAL ECONOMICS (3 hrs.)

Theory of international trade. Methods of adjustment to disequilibrium in balance of payments. The impact of international movements of commodities and capital on economic activity in the past and since World War II. Current problems: international liquidity, economic integration, the United States balance of payments. Prerequisite, Economics 220 and either Economics 201 or by permission. *Miss Greenwood*

315 (1).* HISTORY OF ECONOMIC THOUGHT (3 hrs.)

The development of economic thought from ancient to modern times. A brief survey of early economic ideas, followed by a more detailed examination of the history of economics since 1776. The systems of the leading economists in the light of their own times and of the present day. Prerequisite, 201. *Mr. Clemence*

316 (1).* MODERN ECONOMIC THOUGHT (3 hrs.)

Recent developments in economic thought, and their significance for theory and policy. Reading and discussion of contemporary economic literature. Prerequisite, 201. (Not offered in 1963-64)

317 (2). SEMINAR. QUANTITATIVE ECONOMICS (3 hrs.)

Open by permission to students with nine hours of Economics. Prerequisite, Mathematics 106 or 109 or the equivalent. *Mrs. Almon*

320 (2). SEMINAR. SELECTED TOPICS IN ECONOMIC MOVEMENTS AND THEORIES (3 hrs.)

Subject for 1963-64: Research methods and techniques. Open by permission to juniors. *Mr. Clemence*

330 (1). SEMINAR (3 hrs.)

Current topics in economic analysis and policy. Open to senior majors. *The Staff*

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open to juniors and seniors by permission.

* Offered in alternate years.

DIRECTIONS FOR ELECTION

Students proposing to elect courses other than 101 should consult a member of the department before making final decisions concerning their programs.

Students wishing to emphasize international relations in their field of concentration should consult the chairman of the department as early as possible.

PLACEMENT AND EXEMPTION EXAMINATIONS

Examinations for exemption from Economics 101, and for advanced standing, are offered to qualified students.

EDUCATION

Associate Professor: MARY EWEN ULICH, ED.D. (Chairman)

Lecturer: LOUISE CATHERINE HEUSER KELLER, ED.M.

101 (1) (2). INTRODUCTION TO CLASSICAL PHILOSOPHY (3 hrs.)

For description and prerequisite, see Philosophy 101.

102. INTRODUCTION TO PSYCHOLOGY (6 hrs.)

For description and prerequisite, see Psychology 102.

104 (2). INTRODUCTION TO MORAL PHILOSOPHY (3 hrs.)

For description and prerequisite, see Philosophy 104.

200 (1) (2). PHILOSOPHY OF EDUCATION (3 hrs.)

The role of philosophical thought and analysis in the clarification of major problems of education. Discussion of the aims of schooling, and the relation of knowledge to individual and social values. Open to freshmen in the second semester who have taken or are taking a course in philosophy or psychology, and to sophomores, juniors, and seniors without prerequisite. *Mrs. Ulich*

201 (2). HISTORY OF EDUCATIONAL IDEAS (3 hrs.)

Study of the interrelationship between educational ideas and ideals and their historical setting, their influence on the educational process, and their contribution to the general development of culture. Prerequisite, 200.

Mrs. Ulich

202 (2).* THE ELEMENTARY SCHOOL (3 hrs.)

The organization of the elementary school, its curriculum, the teacher's work, and current educational policies. Emphasis placed on the development and characteristics of elementary school children. Observation in schools required. Prerequisite, 200. (Not offered in 1963-64.)

205 (1). THE EDUCATION OF THE YOUNG CHILD (3 hrs.)

A survey of the theory and practice of early childhood education, including the study of young children as members of society who are responding to educational influences. Four hours a week of observation and participation at

* Offered in alternate years.

the Page Memorial School. Open to juniors and seniors who have taken 200 and a course in psychology. *Mrs. Keller*

206 (2). THE EDUCATION OF THE YOUNG CHILD (3 hrs.)

Further studies in early childhood education. Advanced participation at the Page School. Prerequisite, 205. *Mrs. Keller*

207 (1) (2). CHILD PSYCHOLOGY (3 hrs.)

For description and prerequisite, see Psychology 207.

218 (1). MOTIVATION (3 hrs.)

For description and prerequisite, see Psychology 218.

219 (1). PSYCHOLOGY OF LEARNING (3 hrs.)

See Psychology 219.

300 (1). SECONDARY EDUCATION (3 hrs.)

The aims, organization, and administration of secondary schools considered in relation to their social, political, and economic environments. Criteria for evaluating curricula and classroom problems included. Observation in schools required. Prerequisite, 200. *Mrs. Ulich*

301 (1).° EDUCATIONAL PROBLEMS AND PRACTICES IN OTHER COUNTRIES (3 hrs.)

A comparative study of contemporary educational policies and plans in older and newer nations. Prerequisite, 200. (Not offered in 1963-64.) *Mrs. Ulich*

302 (2).° PRINCIPLES OF TEACHING (3 hrs.)

Study of teaching objectives, curriculum planning, classroom procedures. Review of learning theories. Class divided into groups for six weeks of intensive work in the methods and materials of a specific subject matter; for example, English, foreign language, social science, science. Intended only for those who plan to teach immediately after graduation. Open by permission to juniors and seniors who have taken 300. *The Staff*

307 (1). PSYCHOLOGY OF THE DEVELOPMENT OF PERSONALITY (3 hrs.)

For description and prerequisite, see Psychology 307.

350. RESEARCH OR INDEPENDENT STUDY (3 hrs.)

Open by permission to juniors and seniors. *The Staff*

DIRECTIONS FOR ELECTION

Students who intend to teach should (in their sophomore year if possible) consult the department concerning the various city and state requirements for the certificate to teach and the appropriate undergraduate preparation for fifth year and paid intern programs which combine professional study with further study in teaching fields and lead to Masters degrees honored by all states. (See also General Information, page 31.

Although the College does not offer a major in education, students may take up to eighteen hours, which is the required number in many states. They may elect also the courses listed above in philosophy and psychology which are important in the preparation of teachers.

° Offered in alternate years.

ANNE L. PAGE MEMORIAL SCHOOL

Director: LOUISE CATHERINE HEUSER KELLER, ED.M.

Teachers: JULIA MERRILL BAUER, M.S.; NATALIE B. BARLOW, M.S.; MARY LOUISE MEYER, B.A.; SUSAN STERN, M.A.

Assistant Teachers: DOROTHY STAPLES EGBERT, B.A.; ESTA GORDON EPSTEIN; ANN DAVIN HAZARD; VIRGINIA M. HUCKABEE

Secretary: JEANNE FARNHAM TRIPP

The Anne L. Page Memorial School for children from three to five years of age is the college laboratory school and as such it is an integral part of the educational program of the College. It is a center for child study, observation, and participation for students from all departments of the College, and it is especially helpful to students working in the departments of Education and of Psychology.

ENGLISH

Professors: WALTER EDWARDS HOUGHTON,[3] PH.D.; MARY RUTH MICHAEL, PH.D.; VIRGINIA FLEMING PRETTYMAN,[1] PH.D.; HELEN STORM CORSA, PH.D.; KATHERINE LEVER, PH.D.

Associate Professors: PATRICK FRANCIS QUINN, PH.D. (Chairman); BEVERLY JOSEPH LAYMAN, PH.D.; DAVID RUSSELL FERRY, PH.D.; ROBERT ERWIN GARIS, PH.D.

Assistant Professors: NAOMI JUNE DIAMOND,[1] PH.D.; MARTHA ALDEN CRAIG, PH.D.; JOHN HENRY HAGAN, JR., PH.D.; PATRICIA MEYER SPACKS, PH.D.; EDWARD MICHAEL WHITE, PH.D.; GABRIELE BERNHARD JACKSON, PH.D.

Instructors: MAUREEN HALSALL, PH.D.; PIERS INGERSOLL LEWIS, M.A.; ARTHUR RALPH GOLD, M.A.; MARGUERITE MOLONEY, PH.D.; SUZANNE ROBINSON, M.A.

Lecturers: SYLVIA LEAH BERKMAN,[5] PH.D.; MAY SARTON[4]; MARGARET BREED MARSH, PH.D.

Secretary: MARIAN WARE BALCH

100. STYLE AND ORGANIZATION (6 hrs.)

The critical examination of one's own language. Training in style: accuracy, expressiveness, logical clarity, and the organization of complex meanings. Techniques of argumentation and research. Frequent individual conferences. Required of freshmen. *The Staff*

106. LITERATURE IN THREE AGES: RENAISSANCE, NEO-CLASSIC, AND ROMANTIC (6 hrs.)

An introduction to critical analysis through the reading of major works from Marlowe to Wordsworth in their historical contexts. Open to all undergraduates. *The Staff*

107.‡ INTERPRETATIONS OF MAN IN WESTERN LITERATURE (6 hrs.)

For description and prerequisite, see Interdepartmental 107.

---

[1] Absent on leave.
[3] Absent on leave for the second semester.
[4] Appointed for the first semester only.
[5] Appointed for the second semester only.
‡ Counts as related work but not as part of a major in English. Acceptable as a prerequisite for grade II literature courses.

Courses 200-203 inclusive are planned as *workshops in writing*, with informal group meetings and frequent individual conferences. While the emphasis is on constant practice in writing, each course requires a critical reading of pertinent examples of the type of writing being studied. Courses 301 and 302 inclusive continue the same plan at an advanced level.

200 (1) (2). SHORT NARRATIVE (3 hrs.)

Sketches and the short story. For interested students, experience in the writing of one-act plays. Prerequisite, 100. Not open to students who have taken three semesters of grade II work in writing or who are taking another writing course. *Miss Lever, Mr. White (1); Miss Berkman, Mrs. Spacks (2)*

201 (1) (2). THE CRITICAL ESSAY (3 hrs.)

Training in the organization and presentation of literary analyses and judgments. Reading of some of the best contemporary criticism. Prerequisite or corequisite, 106. *Mr. Garis (1); Miss Moloney (2)*

202 (1). POETRY (3 hrs.)

The writing of short lyrics and study of the art and craft of poetry. Open to juniors and seniors, and by permission to sophomores. *Miss Sarton*

203 (1). EXPOSITORY AND JOURNALISTIC WRITING (3 hrs.)

The writing of reviews, reports, news stories, and magazine articles. Prerequisite, same as for 200. (Not given in 1963-64.) *Mr. Hagan*

---

210 (1) (2). MODERN POETRY (3 hrs.)

English and American poetry and poets, recent and contemporary. Open to sophomores who have taken 106 or Interdepartmental 107, and to juniors and seniors without prerequisite. *Mr. Ferry, Miss Craig*

211 (2). RENAISSANCE DRAMA (3 hrs.)

A critical and historical study of poetic drama in the period of its greatest flowering. Emphasis on the comedies of Jonson and the tragedies of Marlowe, Webster, Tourneur, Chapman, and Middleton. Prerequisite, same as for 210. (Not offered 1963-64.) *Mr. Layman*

212 (1) (2). MODERN DRAMA (3 hrs.)

The study of English, American, and European drama from Ibsen to the present day. Prerequisite, same as for 210. *Mr. Garis, Mrs. Spacks*

215 (1) (2). INTRODUCTION TO SHAKESPEARE (3 hrs.)

The study of a number of representative plays, with emphasis on their dramatic and poetic aspects. Open to juniors and seniors only. Primarily for nonmajors. *Mr. Garis, Miss Craig*

217 (1). MILTON (3 hrs.)

A critical study of Milton as a master of lyric, epic, and dramatic poetry, and as a writer of notable prose. Prerequisite, same as for 210. *Miss Lever*

220 (1) (2). CHAUCER (3 hrs.)

A study of Chaucer's poetry, tracing the development of his art, with some

attention to the relation of his work to the social and literary background of his time. Prerequisite, same as for 210. *Miss Michael, Miss Corsa, Mrs. Jackson*

223 (1). AMERICAN LITERATURE (3 hrs.)

The beginnings of American literature and the social conditions out of which it grew, followed by a consideration of American writers through Melville. Emphasis upon major figures. Prerequisite, same as for 210.

Miss Michael, Mr. Quinn, Mr. Gold

224 (2). AMERICAN LITERATURE (3 hrs.)

American writers from Whitman to the present time. Emphasis upon major figures. Prerequisite, 223. *Mr. Quinn, Mr. Gold*

225. THE DEVELOPMENT OF THE ENGLISH NOVEL (6 hrs.)

The growth of the English novel from its beginning in the 18th century. Concentration on the major novelists from Defoe through Conrad, with attention to the philosophical, cultural, and historical milieux. Prerequisite, same as for 210. Not open to those who have taken 226. *Miss Corsa*

226 (1) (2). STUDIES IN FICTION (3 hrs.)

A study of the art of fiction in the writings of major European, English, and American novelists of the 19th and 20th centuries. Prerequisite, same as for 210. Not open to those who have taken 225.

Mrs. Spacks, Miss Moloney (1); Mr. Layman, Mr. White (2)

228 (1). EIGHTEENTH CENTURY POETRY (3 hrs.)

Pope and Gay to Cowper and Burns. The variety of poetic expression and of critical theory involved in the change from Neo-classicism to Romanticism. Prerequisite, same as for 210. (Not given in 1963-64.) *Mrs. Spacks*

230 (1). EARLY ROMANTIC POETS (3 hrs.)

Intensive study of poems and critical writings of Blake, Wordsworth, and Coleridge. Prerequisite, same as for 210. *Mr. Houghton*

231 (2). LATER ROMANTIC POETS (3 hrs.)

The poetry and criticism of Byron, Shelley, and Keats. Prerequisite, same as for 210. *Mr. Ferry, Mrs. Jackson*

Courses 301 and 302 inclusive are planned as *workshops in writing,* continuing the training of course 200.

301 (2). THE SHORT STORY (3 hrs.)

Techniques of short-story writing, together with practice in critical evaluation of student work. Intensive reading of selected stories. Open to juniors and seniors who have taken one grade II workshop and, by permission, to other qualified students. *Miss Berkman*

302 (1). FICTION (3 hrs.)

A sustained writing project, a novella or linked short stories. Oral critical re-

ports of a short-story writer selected by each student. Prerequisite, same as for 301. (Not offered in 1963-64.)

---

307 (1). CRITICISM (3 hrs.)

A survey of some fundamental critical theories, from Aristotle to the present; their relation in historical context to continuing problems of interpretation and judgment; their application to specific literary works. Special attention to modern trends in criticism. Open to juniors and seniors who have taken or are taking six hours of grade II literature courses in the department and, by permission, to other specially qualified students. *Miss Craig*

308 (2). THE MIDDLE AGES AND RENAISSANCE IN ENGLAND (3 hrs.)

Permanence and change in some major literary forms from 1350 to 1600. Special attention given the religious and intellectual ferment of the sixteenth century. Reading, both intensive and extensive, to include (partly in modern versions) *Gawain and the Green Knight, Piers Plowman,* More, Sidney, Marlowe, and Spenser. Prerequisite, same as for 307. *Miss Lever*

309. SHAKESPEARE (6 hrs.)

Shakespeare as dramatist and poet, seen against the background of his age and its theatre. Intensive study of sixteen plays, and the reading of others. Open to juniors and seniors who have taken six hours of grade II literature courses in the department. Not open to students who have taken 215.

Miss Michael, Mr. Layman

310 (2). POPE AND SWIFT (3 hrs.)

Pope and Swift considered as representative writers of neo-classicism and rationalism, and as masters of satire. Prerequisite, same as for 307.

Mrs. Spacks

311 (1). THE AGE OF JOHNSON (3 hrs.)

The second half of the 18th century studied as the height of the rationalistic period and the beginning of the romantic era. Special attention to Dr. Johnson and his more important contemporaries: Boswell, Goldsmith, Burke, Gray, Cowper, and Burns. Prerequisite, same as for 307. *Mr. Ferry*

312 (2). THE ENGLISH LANGUAGE (3 hrs.)

The origin and growth of the English language, studied as a basis for understanding its structure and the nature and use of words in common speech today and in contemporary literature. Prerequisite, same as for 307. *Miss Lever*

313 (2). THE AGE OF DRYDEN (3 hrs.)

The literature of the Restoration: drama, lyrics, and satire, with special emphasis on John Dryden. The development of the modern outlook as seen in literature and learning. The growth of journalism and middle class literature in the hands of Defoe, Addison, and Steele. Prerequisite, same as for 307. (Not offered in 1963-64.)

314 (1). VICTORIAN PROSE (3 hrs.)

The prose of Macaulay, Huxley, Carlyle, Mill, and Arnold, studied with special reference to Victorian conceptions of politics, science, religion, and

the nature of man. Prerequisite, same as for 307. Open to non-majors by permission. *Mr. Houghton*

315 (2). VICTORIAN POETRY (3 hrs.)

The poetry of Tennyson, Browning, Arnold, and Clough. Prerequisite, 314, or either 230 or 231 and an additional three-hour grade II literature course. Open to other students by permission. (Not offered in 1963-64.) *Mr. Houghton*

316 (2). SEVENTEENTH CENTURY POETRY AND PROSE EXCLUSIVE OF MILTON (3 hrs.)

The stress and conflict of an age of transition, presented through the innovations of Donne and Jonson in poetry, and of Bacon, Browne, Burton, and Taylor in prose. Brief study of Cavalier and religious poetry. Prerequisite, same as for 307. *Mr. Garis*

317 (2). AMERICAN LITERATURE (3 hrs.)

Topic for 1963-64: Prose and poetry of the American Renaissance (1845-55). Prerequisite, same as for 307. *Mr. Quinn*

318 (1) (2). ADVANCED STUDIES IN THE NOVEL (3 hrs.)

Critical and aesthetic problems in the field of fiction, as seen in the work of several major English and American novelists, selected, for the most part, from the 20th century. Prerequisite, same as for 307. *Mr. Hagan*

321 (1). SEMINAR (3 hrs.)

Topic for 1963-64: Renaissance Drama. Open, by permission, to seniors who have taken six hours of grade III in literature and 220 or 308, or 312, and to qualified juniors. *Mr. Layman*

322 (2). SEMINAR (3 hrs.)

Topic for 1963-64: Henry James. His work studied against the background of biography and critical theory. Open, by permission, to seniors who have taken six hours of grade III in literature and to qualified juniors. *Miss Berkman*

323 (1). SEMINAR IN WRITING (3 hrs.)

The focus for 1963-64 will be the writing of poetry. Prerequisite, 202, or by permission. *Miss Sarton*

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open by permission to juniors and seniors.

DIRECTIONS FOR ELECTION

The above courses, with certain exceptions, may be elected to fulfill the distribution requirement in Group I. These exceptions are writing courses and 312.

Although English 100 counts for the degree, it does not count toward a major in English and is not included within the maximum number of hours (42 hours) permitted in one department.

For students interested in writing, a sequence of practice courses is provided, but no two writing courses may be taken simultaneously. Enrollment in writing workshops is, in general, limited to fifteen.

Full details about the purpose and design of the major program are available in the English Department office. The program in brief is as follows:

Course 106 is the basic course for the major and should be elected in the freshman or sophomore year.

Either Chaucer or Milton should be elected by sophomores who have taken 106 or by juniors. They should also elect at least one other grade II semester course in literature.

Advanced work for English majors consists of a semester of varied forms of English literature studied in historical context, a year's study of Shakespeare's major plays, and a semester chosen from the other grade III courses.

Additional courses within the 42-hour limit may be freely elected in accordance with the student's interests.

In applying for enrollment in seminars or 350 work, students of at least B standing in the work of the department will have first consideration.

PLACEMENT AND EXEMPTION EXAMINATIONS

Freshmen who secure the permission of the chairman may qualify for entrance to grade II work in literature by passing an exemption examination covering the material of course 106.

RELATED COURSES

Knowledge of English history, of the course of European thought, and of at least one foreign literature at an advanced level (preferably in the original language) is of great value to the student of English. See, for example, History 103, 213, 217, 310; Philosophy 203 and 214; grade II and grade III courses in foreign literatures; see also Greek 104 and 203; Italian 103; Interdepartmental 107, 201, and 202.

For opportunities to specialize in certain periods (*e.g.* the Middle Ages, the Renaissance), see courses in the departments of Art, History, other languages, Philosophy, *etc.* This correlation should be planned as early as possible.

FRENCH

Professors: EDITH MELCHER, PH.D.; GERMAINE LAFEUILLE, AGRÉGÉE DES LETTRES, PH.D.; RENÉ MARIE GALAND, PH.D.

Associate Professor: CARLO ROGER FRANÇOIS, PH.D. (Chairman)

Assistant Professors: LEO BERSANI,[1] PH.D.; FLORENCE TURNER MCCULLOCH, PH.D.; MARIANNA LOUISE CARLSON, PH.D.

Instructors: ALAIN P. SOLARD, PH.D.; FRANCINE HAMM STOCKHOLM, DOCTEUR DE L'UNIVERSITÉ DE STRASBOURG; JACQUELINE LAUNAY, AGRÉGÉE D'ANGLAIS; ELIZABETH STANTON BLAKE, M.A.; ANNETTE CARTAN BOUJU, AGRÉGÉE D'ANGLAIS; ELISABETH DEBERDT MALAQUAIS, LIC.-ÈS-LETTRES; MONIQUE Y. CROCHET, DIPL. E.S.

Lecturers: JEANETTE MCPHERRIN, M.A.; JOSETTE MANE, AGRÉGÉE D'ANGLAIS

Secretary: DOROTHEA O. CROOKER

All courses of the department are conducted in French. Oral expression and practice in writing are stressed.

[1] Absent on leave.

The department reserves the right to place a new student in the course for which she seems best prepared, regardless of the number of units she has offered for admission.

Attention is called to the opportunity for residence in the French Center, Tower Court.

Qualified students may be recommended by the department for the junior year abroad. See page 30, The Junior Year Abroad.

101. ELEMENTARY COURSE (6 hrs.)

Intensive oral work, grammar and composition, reading of selected texts as an introduction to French life. Open to students who do not present French for admission. Three periods and laboratory. *The Staff*

102. INTERMEDIATE FRENCH (6 hrs.)

Short stories, novels, and plays illustrating some aspects of French culture. Stress on grammar, vocabulary, and pronunciation. Oral and written work. Prerequisite, 101, or two admission units in French. Three periods and laboratory. *The Staff*

103. CONTEMPORARY LIFE AND THOUGHT (6 hrs.)

Analysis of selected modern texts: novels, drama, poetry. Grammar review. Study of vocabulary and pronunciation. Frequent written work and oral practice. Prerequisite, 102, or three admission units in French. Three periods and laboratory. *The Staff*

200. FRENCH LITERATURE THROUGH THE CENTURIES (6 hrs.)

First semester: from the Middle Ages to Voltaire. Second semester: from Voltaire to the present. Class discussion of selected masterpieces, short papers, outside reading. Prerequisite, 103, or four admission units in French; by permission, 102. Two periods and laboratory. *The Staff*

203. FRENCH MASTERPIECES (6 hrs.)

Initiation to literary analysis. Intensive study of selected works representing various literary techniques and genres: poetry, fiction, drama. Class discussion, oral reports, short papers. Prerequisite, 103, or four admission units in French; by permission, 102. Two periods and laboratory.

Miss Melcher, Miss Lafeuille, Mr. Solard, Mrs. Malaquais

204. THE MIDDLE AGES AND THE RENAISSANCE (6 hrs.)

French literature from the *Chanson de Roland* through the 16th century. Among the works and authors studied: *Tristan et Iseult,* Chrétien de Troyes, *Le Roman de la Rose,* Villon, Rabelais, the poets of the Pléiade, Montaigne. Medieval texts read in modern French. Prerequisite, 103, or, by permission, four admission units in French or 200. *Miss Lafeuille, Miss McCulloch*

213 (1). FRENCH DRAMA IN THE TWENTIETH CENTURY (2 hrs.)

Trends in contemporary drama: symbolism, the use of myths, the influence of existentialism, the theater of the absurd. Open to students who have taken a grade II literature course or, by permission, 103. By arrangement with the instructor, three hours. *Miss Melcher*

214 (2). THE FRENCH NOVEL IN THE NINETEENTH CENTURY (2 hrs.)

Emphasis on works by Balzac, Stendhal, Flaubert. Both intensive and ex-

tensive reading. Prerequisite, same as for 213. By arrangement with the instructor, three hours. *Mrs. Malaquais*

215 (2). BAUDELAIRE AND THE SYMBOLIST POETS (2 hrs.)

The nature of the poetic experience, studied in the post-romantic poetry of the 19th century. Prerequisite, same as for 213. By arrangement with the instructor, three hours. *Miss Melcher*

220 (1) (2). STUDIES IN LANGUAGE. I (1 hr.)

Intensive grammar review and practice in free composition. Weekly written work. Prerequisite, 103, or four admission units; by permission, 102. *Mrs. Stockholm*

221 (1) (2). STUDIES IN LANGUAGE. II (1 hr.)

Designed to develop greater facility and precision in written expression for students who already have some skill in the use of French. Grammar, composition, translation. Weekly written work. Prerequisite, a grade II literature course (four or six hours), or, by permission, 220. *Miss Launay*

224 (1) (2). FRENCH SPEECH. I (1 hr.)

Analysis of French pronunciation. Study of accent and intonation. Exercises in diction based on prose and poetry. Use of the language laboratory. Open to students who have taken 103, and to those who have taken or are taking a grade II or a grade III course in French. Recommended to students majoring in French. One period and laboratory. *Miss Blake*

300. PRE-ROMANTICISM AND THE ROMANTIC PERIOD (1750-1850) (6 hrs.)

Awakening of sensibility in the 18th century: Diderot, Rousseau; Mme de Staël, Benjamin Constant, Chateaubriand. The romantic generation: Lamartine, Vigny, Hugo, Musset; Stendhal, Balzac. Prerequisite, a grade II literature course (four or six hours). *Miss Melcher, Miss Carlson, Mrs. Malaquais*

301. SEVENTEENTH CENTURY LITERATURE (6 hrs.)

The Baroque; the development of Classicism. Among the authors studied: poets of the early 17th century, Corneille, Pascal, Molière, Racine, La Fontaine, La Bruyère. Open to juniors and seniors who have taken four or six hours of the following courses: 204, 213, 214, 215, or, by permission, 200, 203. *Mr. François, Mr. Solard*

303 (1).* THE CENTURY OF ENLIGHTENMENT. I (3 hrs.)

Transition and ferment; the awakening of liberal thought in the first half of the 18th century. Among the authors studied: Fontenelle, Lesage, Marivaux, Prévost, Montesquieu, Voltaire before 1750. Prerequisite, same as for 301. (Not offered in 1963-64.) *Miss Melcher*

304 (2).* THE CENTURY OF ENLIGHTENMENT. II (3 hrs.)

The literature of ideas: the philosophic and humanistic spirit in France after 1750. Among the authors studied: Voltaire after 1750, Diderot and the Encyclopédistes, Rousseau, Beaumarchais, Laclos. Prerequisite, same as for 301. (Not offered in 1963-64.) *Miss Melcher*

* Offered in alternate years.

306.° THE FRENCH RENAISSANCE (6 hrs.)

A critical study of some representative writers, such as Marot, Calvin, Rabelais, Ronsard, Montaigne; their relation to the history and the art of the time. Open to juniors and seniors who have taken a six-hour course at the grade III level.

Miss Lafeuille

307. TWENTIETH CENTURY FRENCH LITERATURE (6 hrs.)

Study of the main currents in contemporary French literature; analysis of representative works. Open to seniors who have taken a six-hour course at the grade III level. *Mr. Galand*

308 (1). STUDIES IN LANGUAGE. III (3 hrs.)

Translation into French from modern novels and essays. Study of French style through analysis of selected texts. Occasional free composition. Open to juniors and seniors who have taken a six-hour course at the grade III level, or, by permission, 221. *Mrs. Mane*

310 (2). STUDIES IN LANGUAGE. III (3 hrs.)

A continuation of 308, with different subjects and texts. Primarily for students who have taken 308. Prerequisite, same as for 308. *Mrs. Mane*

316. FRENCH SPEECH. II (2 hrs.)

Advanced scientific training in French diction and intonation with the aid of modern laboratory equipment. Study of varied texts and practice in oral composition and self-expression. Open to students who have taken 224, or by permission. (Not offered in 1963-64.)

321 (2). SEMINAR. MEDIEVAL LANGUAGE AND LITERATURE (3 hrs.)

Close reading of medieval masterpieces in Old French: *La Chanson de Roland*, a romance by Chrétien de Troyes, the poems of Villon, extracts from other texts. Open by permission to seniors who have taken 12 hours at the grade III level or the equivalent. (Not offered in 1963-64.)

322 (1). SEMINAR. INTENSIVE STUDY OF ONE AUTHOR (3 hrs.)

The life and works of a writer in relation to the social history and literary trends of his period. In 1963-64 the author studied will be Balzac. Prerequisite, same as for 321. *Miss Melcher*

350. RESEARCH OR INDEPENDENT STUDY (2 to 6 hrs.)

Prerequisite, same as for 321. (2 to 3 hrs. for a semester or 4 or 6 hrs. for a year.)

DIRECTIONS FOR ELECTION

Course 103 and all grade II and grade III courses, except the linguistic courses, may be elected to fulfill the literature requirement in Group I.

Course 101 counts for the degree but does not count toward a major.

Students who have taken 101 and 102 may not elect 103.

Course 102 counts for the major only if directly followed by a six-hour course of grade II.

° Offered in alternate years.

Students taking their first Grade II literature course are urged to elect 220. Students planning to major in French (with the exception of those who carried a grade II course in their freshman year) should not elect a second literature course of grade II without permission of the department.

Courses 221, 308, 310 give valuable training in language skill. Students majoring in French are expected to elect at least two of these courses. The department may require majors to take 224.

Students majoring in French are advised to include 204 or 306, and 301 in their program.

Students who begin with 101 in college and who may wish to major in French should consult the chairman of the department at the end of their freshman year.

Special attention is called to Education 302; this course is recommended to students majoring in French who wish to prepare for teaching in secondary schools.

RELATED COURSES SUGGESTED FOR ELECTION

Students who may wish to do graduate work in French are advised to begin the study of a second modern language.

Related courses in art, history, philosophy, English and those courses in foreign languages that meet the literature requirement are recommended.

Geography 208, and History 210 and 211 are especially useful for French majors.

By careful choice of related courses, a student majoring in French may plan a field of concentration emphasizing one period. Students interested in such a plan should consult the chairman of the department as early as possible.

GEOGRAPHY

Professor: ELIZABETH EISELEN, PH.D. (Chairman)
Assistant Professor: MARTHA ELEANOR CHURCH, PH.D.

Custodian: MARTHA MILES GORDON

102 (1). FUNDAMENTALS OF WORLD GEOGRAPHY (3 hrs.)

A study of the physical elements of geography and of the principles underlying their distribution in the world; special reference to associated problems in emerging and developed regions of the world. Open to all undergraduates.

Miss Church

104 (1). GEOGRAPHY OF THE UNITED STATES AND CANADA (3 hrs.)

A study of the major geographical regions of Anglo-America. Particular consideration given to environmental factors of importance to current economic and political problems. Open to all undergraduates.

Miss Eiselen

105 (2). GEOGRAPHY OF SOUTH AMERICA (3 hrs.)

A study of the environmental characteristics of the countries of South America; the relationship of environment to past, present and possible future development of the various countries. Open to all undergraduates.

Miss Eiselen

208 (2). GEOGRAPHY OF EUROPE (3 hrs.)

A study of the geographical character of the European continent. Economic and political implications of recent developments in resource utilization as well as changes occurring in traditional land use patterns. Open to sophomores who have taken 102 or 104 or six hours of economics, history, political science or sociology, and to juniors and seniors without prerequisite. *Miss Church*

209 (2). GEOGRAPHY OF AFRICA (3 hrs.)

A study of Africa with emphasis on selected geographical factors affecting current economic and political changes in the continent. Prerequisite, same as for 208. *Miss Eiselen*

210 (1). GEOGRAPHY OF THE MIDDLE EAST (3 hrs.)

Investigation of particular environmental conditions related to economic and political development in the Middle East. Prerequisite, same as for 208. *Miss Church*

211 (2). CARTOGRAPHY (3 hrs.)

History of maps; principles and problems involved in map making and map interpretation; use of aerial photographs and other source materials. Opportunity in laboratory for individual map projects to suit special interests of the student. Open to sophomores who have taken one course in geography or geology and to juniors and seniors without prerequisite. Two periods of lecture and laboratory. *Miss Church*

213 (2). GEOGRAPY OF ASIA (3 hrs.)

An examination of the geographical character of the Asiatic continent. Analysis of resources and of the imprint of varying cultures upon the land. Emphasis placed upon newly developing patterns of land use in China, Japan, India, and Pakistan. Prerequisite, same as for 208. *Miss Church*

306 (1). CONSERVATION OF NATURAL RESOURCES (3 hrs.)

A study of selected problems associated with the need for and the principles governing the conservation of the natural resources of the United States; problems of water supply, floods, land use, wildlife, and mineral and power supplies. Open to juniors and seniors who have taken six hours of geography or are majoring in economics, political science, geology, or the biological sciences. *Miss Eiselen*

310 (1). GEOGRAPHY OF THE U.S.S.R. (3 hrs.)

Intensive study of significant geographical developments in the U.S.S.R. Special attention given to particular aspects of resource planning. Prerequisite, same as for 308. *Miss Church*

312 (2). SEMINAR. ECONOMIC GEOGRAPHY OF THE WESTERN HEMISPHERE (3 hrs.)

Investigation of selected problems in the economic geography of Anglo and Latin America, including Mexico, Central America, and the Caribbean Islands. Open to juniors and seniors who have taken six hours of world or regional geography, and to juniors and seniors majoring in Spanish who have taken 104 or 105. *Miss Eiselen*

313 (1). SEMINAR (3 hrs.)

An examination of theory and methodology in one special field of geography. Subject for 1963-64: New Approaches in Economic Geography of Underdeveloped Areas. Open to juniors and seniors majoring in geography or related fields who have taken twelve hours in geography. *Miss Eiselen*

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open by permission to juniors and seniors.

DIRECTIONS FOR ELECTION

Grade I and II courses may be elected as non-laboratory science courses to fulfill part of the Group III distribution requirement. Grade III courses in geography do not count for distribution.

A geography major should include 102 and 211. In addition, related work should include Geology 101 (1), or Botany-Zoology 206 (1).

Attention is called to the possibility of emphasizing area studies in the field of concentration.

GEOLOGY

Professor: LOUISE KINGSLEY, PH.D. (Chairman)
Assistant Professor: DABNEY WITHERS CALDWELL, PH.D.

Custodian: MARTHA MILES GORDON

101.† GENERAL GEOLOGY (6 hrs.)

Physical and historical geology. The work of rivers, oceans, glaciers and volcanoes throughout geologic time. The origin and history of mountains, and the structure and development of the North American continent. The history of living things as recorded by fossils. Mineral and fuel resources.

Open to all undergraduates. Two periods of lecture or discussion and three of laboratory. Occasional afternoon field trips substituted for laboratory work. *The Staff*

202 (1). MINERALOGY (3 hrs.)

A study of common ore, rock-forming, and accessory minerals. Geologic occurrence and economic use. Identification by physical properties and simple chemical tests. Field trips. Prerequisite, Geology 101, Chemistry 101, or Interdepartmental 106. Five periods of lecture and laboratory. *Mr. Caldwell*

204 (1).° GEOMORPHOLOGY (3 hrs.)

A study of land forms and their origin; their use in interpretation of geologic history; streams, glacial features and shore processes studied in the field and in the laboratory. Quantitative studies of topographic maps and stream-gauge data. Practical application of geomorphology. Open to students who have taken one semester of 101. Three periods of lecture and laboratory. *Mr. Caldwell*

† The first semester may be elected separately by junior and senior geography majors.

° Offered in alternate years.

205 (1).° INVERTEBRATE PALEONTOLOGY (3 hrs.)

The facts and principles of organic evolution as revealed by the life of the past. The steps in the development from simple, generalized forms to more complex and specialized types illustrated by a comparative study of fossils. Prerequisite, 101, Zoology 101, or Interdepartmental 103. Three periods of lecture and laboratory. *Miss Kingsley*

206 (2). REGIONAL GEOLOGY OF NORTH AMERICA (3 hrs.)

A systematic study of the United States, Canada, and Mexico by physiographic provinces, dealing with the geologic history, the kinds of rocks (including the economically important rocks), the structures and their relations to topography. Prerequisite, 101. Three periods of lecture and laboratory. *Miss Kingsley*

207 (2). ECONOMIC GEOLOGY (3 hrs.)

A study of economically valuable mineral deposits, both metallic and nonmetallic. The origin, composition, and geological and mineralogical relations of these deposits; their geographic distribution and political significance. Prerequisite, 101 and, by permission, Geography 104. Three periods of lecture and laboratory. *Mr. Caldwell*

301 (2).° PETROGRAPHY (3 hrs.)

A study of the crystal systems of the rock-making minerals, the optical properties of those minerals, and identification of igneous, sedimentary, and metamorphic rocks by optical mineralogy. Two periods of lecture. Laboratory to be arranged. Prerequisite, 202. *The Staff*

313 (2).° STUDIES IN STRATIGRAPHY (3 hrs.)

Various aspects of sedimentary rocks such as lithology, origin, environments of deposition, structures and relationships studied as aids in reading the stratigraphic record. Various laboratory techniques utilized in determining origin, history, and correlation of sedimentary materials. Individual study projects. Prerequisite, 101 and 202. Three periods of lecture and laboratory. (Not offered in 1963-64.) *Mr. Caldwell*

314 (1). STRUCTURAL GEOLOGY (3 hrs.)

Description and interpretation of rock structures. The origin and structure of mountain ranges. Individual study of areas of special interest. Laboratory work: interpretation of geologic maps, the drawing of cross-sections, and graphical solution of problems. Open to juniors and seniors who have taken 101 and a grade II course in geology. Three periods of lecture and laboratory, with occasional field trips. *Miss Kingsley*

315 (2). VULCANISM AND IGNEOUS ROCKS (3 hrs.)

Extrusive and intrusive phases of vulcanism. Description, identification, and origin of igneous and related metamorphic rocks. Particular emphasis on regional studies. Open to juniors and seniors who have taken 101 and 202. Lecture and laboratory, with occasional field trips. (Not offered in 1963-64.) *Miss Kingsley*

° Offered in alternate years.

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open, by permission, to juniors and seniors who are majoring in the department.

SUMMER FIELD COURSES. The department will recommend summer field courses given by other colleges (dealing chiefly with the Rocky Mountain region) to interested students who have completed one year or more of geology at Wellesley. Credit may be given for such courses provided the student's plans are approved in advance by the department.

DIRECTIONS FOR ELECTION

A geology major must include 101. Grade II courses should be selected with a view to the type of advanced work which the student desires. Advice from the department should be secured. A summer field course in western United States is suggested as a good background for advanced courses.

Geography 306 and the regional courses correlate well with geology. Chemistry is desirable for students majoring in geology. Those intending to do graduate work should consult the department in the selection of related courses.

GERMAN

Associate Professor: BARBARA SALDITT, PH.D.
Assistant Professor: MARTHA JULIA GOTH, PH.D. (Chairman)
Instructors: VALDA DREIMANIS, M.A.; LAURA EVELYN HOURTIENNE, PH.D.; RENATA HOFMAN BRIGGS

The language of the classroom in all courses is almost exclusively German. The student thus has constant practice in hearing, speaking, and writing German. Capable students in 101 have the opportunity, by doing special reading during the summer and upon approval of the Chairman, to omit 102 and proceed with 202, an introductory course in German literature. A summer term at the German School, Middlebury College, is recommended as stimulating and helpful.

Well qualified students will be allowed to spend the junior year in Germany. See page 30, The Junior Year Abroad.

Attention is called to the opportunity for residence in the German Corridor of Wellesley College.

101. ELEMENTARY COURSE (6 hrs.)

Study of grammar and vocabulary; frequent written exercises; reading of short stories; special emphasis on oral expression. Open to students who do not present German for admission. Three periods and laboratory. *The Staff*

102. INTERMEDIATE COURSE (6 hrs.)

Extensive reading with emphasis on vocabulary building; review of fundamental principles of grammar; frequent composition and oral expression; discussion of German culture. Prerequisite, 101 or two admission units in German. Three periods and laboratory. *The Staff*

104. OUTLINE HISTORY OF GERMAN LITERATURE (6 hrs.)

First semester: an introduction to German literature from its beginning to the 17th century. Second semester: an introduction to the 17th and 18th centuries,

Schiller and Goethe. Open to freshmen only who present three or more admission units in German. *Miss Salditt*

202. INTRODUCTION TO GERMAN LITERATURE (6 hrs.)

A study of the development of German literature and its cultural background from 800-1800. Works read and discussed are: the *Hildebrandslied,* selections from the *Nibelungenlied,* the works of Wolfram, Gottfried, Hartmann, the Minnesingers; *Volkslied,* selections from Luther, Hans Sachs, Lessing, Herder, Schiller, Goethe. Prerequisite, 102 or, by permission, 101. Three periods. *Miss Goth, Miss Dreimanis, Miss Hourtienne*

204 (1). GOETHE (3 hrs.)

Goethe's life and work; his literary growth studied with emphasis on his development from "Sturm und Drang" to classicism. Prerequisite, 104 or 202. *Miss Salditt*

205 (1). THE DEVELOPMENT FROM ROMANTICISM TO REALISM (3 hrs.)

Study of romantic thought, its literary expression and its evolution to the realistic thinking of the 19th century. Open to students who have taken 104 or 202 and, by permission, to other students with sufficient knowledge of German. *Miss Hourtienne*

206. CONVERSATION (2 hrs.)

Practice in the use of the spoken language. Class discussions based on readings in newspapers, periodicals, and other contemporary materials. Open to students taking 202, and to others by permission of the instructor. (Not offered in 1963-64.)

207 (2).° ADVANCED COMPOSITION AND CONVERSATION (3 hrs.)

Intensive work in written and oral German; composition, translation, grammar. Prerequisite, 202. (Not offered in 1963-64.) *Miss Hourtienne*

209 (2). LINGUISTICS (2 hrs.)

Study of the structure of the German language: advanced syntax, morphology, semantics, with emphasis on synonomy. Prerequisite, same as for 207. (Not offered in 1963-64.)

304 (2). GOETHE'S *Faust* (3 hrs.)

Intensive study of Goethe's *Faust,* Part I; extensive study of Part II. Prerequisite, 104 or 202, and 204. *Miss Salditt*

305 (2).° FROM CLASSICISM TO ROMANTICISM (3 hrs.)

A study of the following authors and their respective relationships to classicism or romanticism: Schiller, Hölderlin, Kleist. Prerequisite, 204 or 205. *Miss Hourtienne*

306 (2). FROM LESSING TO HERDER (3 hrs.)

Literary trends in the 18th century. Extensive selections from Lessing, Herder, and Winckelmann. Prerequisite, 304. (Not offered in 1963-64.) *Miss Salditt*

° Offered in alternate years.

308 (1). LITERATURE OF THE LATE NINETEENTH AND THE EARLY TWENTIETH CENTURIES (3 hrs.)

Intellectual and aesthetic trends of the period. Varied texts: dramas, lyric poetry, novels, essays, letters of representative authors. Prerequisite, 204 or 205, and open to seniors by permission of the instructor. *Miss Goth*

312 (2). LITERATURE OF THE TWENTIETH CENTURY (3 hrs.)

Aspects and tendencies of 20th century literature from the First World War to the present time. Prerequisite, same as for 308. *Miss Goth*

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open by permission to seniors.

DIRECTIONS FOR ELECTION

To fulfill the literature requirement in Group I, students may elect courses 104, 202, 204, 205, and grade III courses.

Course 101 may be counted for the degree but not for the major.

Course 102 may count for the major.

Students who begin with 101 in college and wish to major in German should consult the department in order to obtain permission to omit 102 and take 202.

Students intending to major in the department are requested to take 104 or 202 and at least 12 hours of grade III work.

GREEK

Professor: BARBARA PHILIPPA MCCARTHY, PH.D. (Chairman)
Assistant Professor: MARY ROSENTHAL LEFKOWITZ, PH.D.

Lecturer: KATHERINE ALLSTON GEFFCKEN, PH.D.

101. BEGINNING GREEK (6 hrs.)

Reading of brief passages from the great poets and prose writers of ancient Greece, accompanied by the study of forms and syntax. In the second semester longer selections from Herodotus and Euripides' *Alcestis*. Open to students who do not present Greek for admission. Three periods.
Miss McCarthy, Miss Geffcken

102.* MODERN GREEK (2 hrs.)

Practice in reading and speaking the Greek of today. Open by permission.
Miss McCarthy

104 (2). CLASSICAL MYTHOLOGY (3 hrs.)

The more important classical myths, read in English translations of Greek and Latin authors; their religious origins; their expression in ancient literature and art; their later influence. Open to all undergraduates. *Mrs. Lefkowitz*

201 (1). PLATO (3 hrs.)

Apology, Crito and selections from the *Phaedo*. The personality of Socrates and his position in the development of Greek thought. Three periods. Prerequisite, 101 or two admission units in Greek, or by permission
Mrs. Lefkowitz

202 (2). HOMER'S *Odyssey* (3 hrs.)

Selected books of the *Odyssey* or other reading to meet the needs of the class. Intended primarily for those who have already studied the *Iliad*. Prerequisite, 201. (Not offered in 1963-64.)

203 (1). GREEK EPIC AND TRAGEDY IN ENGLISH TRANSLATION (3 hrs.)

The *Iliad* and *Odyssey*, and plays of Æschylus, Sophocles, and Euripides; ancient criticism of tragedy in Aristophanes' *Frogs*, Aristotle's *Poetics*. Open to juniors and seniors without prerequisite, and to sophomores who have taken a course in literature in any department. *Miss McCarthy*

205 (2). HOMER'S *Iliad* (3 hrs.)

Study of selected books in Greek, with emphasis on the oral style of early epic; reading of the rest of the poem in translation; the archeological background of the period. Three periods. Prerequisite, 201 or by permission. *Miss McCarthy*

206.* GREEK PROSE COMPOSITION (2 hrs.)

A study of Greek prose style with reading and analysis of Greek texts; review of Attic Greek grammar; translation of English into Greek. Prerequisite, 201 or 205. (Not offered in 1963-64.) *Mrs. Lefkowitz*

301. GREEK DRAMA (6 hrs.)

Study in Greek of one play by each of the dramatic poets: Æschylus, Sophocles, Euripides, Aristophanes; reading of other plays in translation. Prerequisite, 205 or 202, or by permission. *Miss McCarthy*

302. GREEK POETRY FROM HOMER THROUGH THEOCRITUS (6 hrs.)

Epic, lyric, and pastoral poetry. Prerequisite, 205 or 202. *Mrs. Lefkowitz*

306. GREEK PROSE (6 hrs.)

Reading from Herodotus, Thucydides, and Plato's *Republic*. Prerequisite, same as for 302. (Not offered in 1963-64.)

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open to seniors by permission.

DIRECTIONS FOR ELECTION

To fulfill the literature requirement in Group I, students may elect any course in Greek except 101, 102, 206.

Courses 104 and 203 may not be counted toward a major in Greek.

Students majoring in Greek are advised to elect some work in Latin. The attention of majors is also called to the courses in Greek history, Greek art, and Greek philosophy.

Students interested in archeology are referred to the interdepartmental major in Classical Archeology (see page 49).

Students who plan to do graduate work in classics are reminded that work in both Greek and Latin is usually required.

Qualified students may fulfill the second semester of the Biblical history requirement by electing Biblical History 210, THE FIRST THREE GOSPELS IN GREEK.

* Offered in alternate years.

HISTORY

Professors: EVELYN FAYE WILSON, PH.D.; HENRY FREDERICK SCHWARZ, PH.D.; CHARLOTTE ELIZABETH GOODFELLOW,[1] PH.D.; EDWARD VOSE GULICK,[1] PH.D.; LAURA BORNHOLDT,[1] PH.D.

Associate Professors: JOSEPH LEWIS SULLIVAN, PH.D. (Chairman); ALICE BIRMINGHAM COLBURN, PH.D.

Assistant Professors: KATHRYN LEE CONWAY TURNER, PH.D.; MIRIAM HASKELL BERLIN, PH.D.; WALTER WARREN WAGAR,[1] PH.D.; EUGENE LIONEL COX, PH.D.

Instructors: MELVIN EUGENE BRUNETTI, M.A.; MAUD HAZELTINE CHAPLIN, M.A.; SAMUEL FOGLE WELLS, JR., M.A.; MERLE D. GOLDMAN, M.A.

Lecturers: MARTHA ELLIS FRANÇOIS, PH.D.; JEFFREY ERNEST BUTLER,[5] M.A. (OXON)

Visiting Lecturer: HARRY HEARDER, PH.D.

Secretary: KATHERINE CUTTING SEARS, B.A.

101. MEDIEVAL AND EARLY MODERN EUROPE (6 hrs.)

A study of the origins of modern European civilization through the Renaissance and Reformation. Political, social, and economic institutions and concepts under changing conditions; the development of Christianity; the assimilation of the heritage of the ancient world; feudalism and the rise of the middle class; the growth and expansion of the national state. Open to all undergraduates.
The Staff

102. MODERN EUROPEAN HISTORY (6 hrs.)

A survey of the European world in the 17th century; the evolution of modern Europe as determined by such movements as colonial expansion, economic and political revolutions, ideological changes, and international relations. The emergence of present world problems. Open to all undergraduates. *The Staff*

103. HISTORY OF WESTERN THOUGHT (6 hrs.)

The ideas which have molded Western civilization traced in their development since classical times in relation to the major trends in Western history. Illustrated by selected readings from original sources. Open to sophomores, juniors, and seniors who have not taken 101 or 102, and, by permission, to freshmen who have some knowledge of European history.
Mrs. Colburn, Mrs. Chaplin

104. HISTORY OF THE AMERICAS (6 hrs.)

A survey of the comparative development of Canada, the United States, and the Latin American nations: the age of discovery and colonization, independence movements, and major developments in the 19th and 20th centuries. Prerequisite, same as 103. *Mr. Brunetti*

200. HISTORY OF EUROPE FROM THE DECLINE OF ROME TO THE PRESENT TIME (6 hrs.)

The evolution of medieval society; the emergence of national states; ideological and cultural changes; European expansion overseas; the development of nationalism, democracy, and authoritarianism; world conflicts. (Primarily for non-majors.) Open to juniors and seniors, except those who have taken 101 or 102. *Mr. Schwarz*

[1] Absent on leave.
[5] Appointed for the second semester only.

202 (1) (2). Europe in the Twentieth Century (3 hrs.)

The causes and course of World War I; the peace settlements; the emergence of communism and fascism; social and economic tensions; World War II and the post-war era. Prerequisite, six hours in history or social science.

Mr. Hearder

206.* Central Europe (6 hrs.)

A survey of Central Europe—Germany, Poland, Bohemia, and the Danube Valley—since the 14th century; the political evolution of the states in this area, with emphasis on social and cultural developments and relationships. Open to students who have taken six hours in history or who are giving special attention of the study of German. (Not offered in 1963-64.) *Mr. Schwarz*

209. History of Russia (6 hrs.)

A general survey of Russian history. First semester: the evolution of the Russian state and the emergence of Russia as a European power from the earliest times to the end of the 18th century. Second semester: the political, social, and economic developments of the 19th century culminating in the Bolshevik revolution of 1917 and the establishment of the Soviet state. By permission, either semester may be taken independently. Open to all seniors, to juniors who have taken or are taking another course in history, and to sophomores who have taken six hours. *Mrs. Berlin*

210 (1). The Age of Louis XIV in France (3 hrs.)

Society and government in France during the "golden age" of absolutism. Analysis of absolute monarchy and foreign relations under Louis XIV, and of social and intellectual life. Prerequisite, six hours in history; no prerequisite for French majors. Not open to freshmen. *Mr. Cox*

211 (2). The Enlightenment, The French Revolution, and Napoleon (3 hrs.)

An analysis of the intellectual, social, and political forces in France after 1715 which combined to produce the crisis of 1789. A study of the era of the Revolution and Empire, with emphasis on the new social and political ideals of this period and on the relations of France with Europe. Prerequisite, same as for 210. *Mr. Cox*

213. History of England (6 hrs.)

A general survey of English history, political, constitutional, and social, with special emphasis on England's contributions to the modern world. Some attention to problems of historical interpretation. Open to sophomores, juniors, and seniors who have taken six hours in history or are giving special attention to English literature, political science, economics, or sociology.

Mrs. Colburn, Mrs. François

214. The Hispanic World (6 hrs.)

The development of Iberian civilization and its dissemination in the New World: Medieval and Renaissance Spain, Colonial Latin America, and Wars for Independence, the Latin American Republics, problems of 19th and 20th

* Offered in alternate years.

century Spain. Prerequisite, six hours in history. No prerequisite for Spanish majors. By permission, either semester may be taken independently.
Mr. Brunetti

217. THE RENAISSANCE AND REFORMATION IN EUROPE **(6 hrs.)**
A study of relationships between economics, politics, and culture in western Europe, 1300-1600: the rise of capitalism and the middle class, the renaissance state, and humanism in its various aspects. In the second semester, the Protestant revolt and the Catholic reformation. By permission, either semester may be taken independently. Prerequisite, six hours in history or art. *Miss Wilson*

218.† HISTORY OF SCIENCE (6 hrs.)
For description and prerequisite, see Interdepartmental 218.

221 (1).° COLONIAL AMERICA 1607-1783 (3 hrs.)
The development of the British colonies in North America, the evolution of British colonial policy, and the American Revolution. Open to juniors and seniors without prerequisite, and to sophomores who have taken six hours in history or social science. (Not offered in 1963-64.) *Mrs. Turner*

222 (1)° THE UNITED STATES 1783-1850 (3 hrs.)
The adoption of the Constitution, the development of the new nation to the Compromise of 1850. Prerequisite, same as for 221. *Mrs. Turner*

223 (1). THE UNITED STATES 1850-1900 (3 hrs.)
The politics and the social, economic and intellectual roots of sectionalism, the Civil War, reconstruction, and the age of big business. Open to juniors and seniors without prerequisite, and to sophomores who have taken six hours in history, economics, political science, or sociology. *Mr. Brunetti*

224 (2). THE UNITED STATES IN THE TWENTIETH CENTURY (3 hrs.)
Political, social and intellectual developments in an industrial society. Foreign affairs will be considered only in relation to domestic politics. Prerequisite, same as for 223. *Mrs. Turner, Mr. Brunetti*

226. THE FAR EAST (6 hrs.)
China and Japan from 1600 to the present with emphasis on their distinctive cultures, their revolutions and their relations with the West. Open to all seniors, to juniors who have taken or are taking another course in history, and to sophomores who have taken six hours. The first semester (i.e. to 1890) may be taken independently. *Mrs. Goldman*

302.° CIVILIZATION OF GREECE (6 hrs.)
A study of the Near Eastern civilizations by which the Greeks were influenced. The social, economic, and political development of the Greek city-state; the most significant aspects of Greek civilization for the Western World. Museum trips, illustrated lectures. Open to juniors and seniors who have taken or are

† Counts as related work but not as part of a major in history.
° Offered in alternate years.

taking six hours of grade II in history; no prerequisite to those who are giving special attention to the classics or Greek philosophy. By permission the first semester may be taken independently. (Not offered in 1963-64.) *Miss Goodfellow*

303.° Civilization of Rome (6 hrs.)

Rome's experiments in government and the attempts of her statesmen to solve the social and economic problems of the Republic and Empire; Rome's culture and legacy to the modern world. Museum trips, illustrated lectures. Open to juniors and seniors who have taken or are taking six hours of grade II in history; no prerequisite to those who are giving special attention to the classics. By permission the first semester may be taken independently. *Mrs. Lefkowitz*

305. Diplomatic History of Europe since 1789 (6 hrs.)

Problems of European diplomacy and statecraft from 1789 to the present. Open to juniors and seniors who have taken 12 hours of history, including three hours of modern history; by permission, to specially qualified students in political science or economics who have taken History 102 or 200. *Mr. Hearder*

307. History of United States Foreign Policy (6 hrs.)

The development of United States foreign policy from the Revolution to the present. First semester, to 1898; second semester, 1898 to the present. Open to students who have taken 12 hours in history, or who have taken 6 hours of history and have taken or are taking Political Science 208 or 301. By permission of the instructor, either semester may be taken independently. *Mr. Wells*

308 (2). European Imperialism since 1870 (3 hrs.)

Survey of European overseas empires from 1870 to the present, tracing their growth, their special problems, the development of colonial nationalism, and the changes after World War II. Emphasis on the motives and on the prominent theories of imperialism. Primary attention to Africa. Open to juniors and seniors who have taken 12 hours in history or nine hours in history and Economics 314. *Mr. Butler*

310. Social and Intellectual History of the United States (6 hrs.)

The ideas associated with the development of American culture as they are embodied in political thought, religion, the arts, philosophy and social institutions from the colonial period to the present time. Open to juniors and seniors who have taken 6 hours of grade II in history, or by permission. *Mrs. Turner*

312 (2). The Near East (3 hrs.)

The evolution of European interest in the critical area between the Eastern Mediterranean and the Persian Gulf during the decline of the Turkish Empire with emphasis on 20th century conflicts resulting from national aspirations and economic tensions. Open to juniors and seniors who have taken a course of grade I and have taken or are taking six hours of grade II in history, or have taken six hours of grade II in history. Open by permission to specially qualified non-majors. *Mr. Sullivan*

° Offered in alternate years.

313 (1). RUSSIA IN TRANSITION. A CENTURY OF RUSSIAN CIVILIZATION (3 hrs.)

Life and thought in Russia since the middle of the 19th century. Changes in ideas concerning political institutions, social structure, ethical and artistic standards, with special attention given to prominence and significance in Russian history of Tolstoy, Dostoyevsky, and Lenin. Prerequisite, same as for 312. *Mr. Sullivan*

314.* POLITICAL AND CULTURAL HISTORY OF GERMANY SINCE THE REFORMATION (6 hrs.)

A study of German society, and the evolution of the intellectual and artistic life of Germany against the background of political institutions from the Reformation to the present. Attention given to the diversity of German culture and to the effect of outside influences and their assimilation. Open to juniors and seniors who have taken or are taking six hours of grade II in history. Open by permission to specially qualified non-majors. *Mr. Schwarz*

319. EUROPEAN INTELLECTUAL HISTORY SINCE THE MIDDLE OF THE NINETEENTH CENTURY (6 hrs.)

Western European thought and opinion in relation to the major trends in world history, from Darwin and Marx to the present. Extensive and varied reading in the original sources. Prerequisite: open to juniors and seniors who have taken nine hours of modern history, or by permission. (Not offered in 1963-64.) *Mr. Wagar*

330. SEMINAR. MEDIEVAL CULTURE FROM ST. AUGUSTINE TO DANTE (6 hrs.)

A study of society, thought, and learning in the early Middle Ages, the influence of Moslem civilization in the West, the medieval renaissance, and the synthesis of the 13th century. Prerequisite, open by permission to qualified juniors and seniors who have had twelve hours of history including previous work in the field. In some cases appropriate advanced work in related departments may be substituted for part of the prerequisite. *Miss Wilson*

331. SEMINAR. NINETEENTH CENTURY BRITAIN (6 hrs.)

A study of social, political, religious and intellectual developments in England. Prerequisite, same as for 330. By permission of the instructor the first semester may be taken independently. *Mrs. Colburn*

332 (1). SEMINAR. AMERICAN HISTORY (3 hrs.)

Study of a topic or several related topics. Subject for 1963-64: Constitutional Crises—Three or four selected topics through which the interpretation of the Constitution by the Supreme Court will be examined within the historical conflicts of different periods. Prerequisite, same as for 330. *Mrs. Turner*

333 (2). SEMINAR. AMERICAN HISTORY (3 hrs.)

Study of a topic or several related topics. Subject for 1963-64: The Negro in American History. Prerequisite, same as for 330. *Mrs. Turner*

334 (1). SEMINAR. EUROPEAN HISTORY (3 hrs.)

Study of a topic or several related topics. Subject for 1963-64: Islam and the West in the Near East—Selected problems in the history of the Ottoman

* Offered in alternate years.

Empire with emphasis on the conflicts between Islamic and Western cultural and institutional traditions. Prerequisite, same as for 330. *Mr. Sullivan*

335 (2). SEMINAR. EUROPEAN HISTORY (3 hrs.)

Study of a topic or several related topics. Subject for 1963-64: The Theory and Practice of Revolution in Nineteenth Century Europe—Selected topics in the development of socialist thought and the organization of revolutionary action. Prerequisite, same as for 330. *Mrs. Berlin*

336 (2). SEMINAR. INTERPRETATIONS OF HISTORY (3 hrs.)

Changing conceptions of history as illustrated by a study of selected historians. Emphasis upon the relation of these conceptions to the intellectual background out of which they developed. Prerequisite, same as for 330. *The Staff*

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open by permission to juniors and seniors who have taken or are taking a course of grade III in history.

DIRECTIONS FOR ELECTION

Beginning students electing history may choose any of the introductory courses (101, 102, 103, 104), but not more than one of these courses may be counted in the hours for a major.

Major students in history must distribute their work so that they have some acquaintance with the general political or cultural history of the periods both before and after 1715. To fulfill this requirement students beginning with 101 or 103 should include in their program three hours of advanced work in the period prior to 1715 and, ordinarily, six hours of advanced work in the period after 1715. Students beginning with 102 or 104 should include three hours of advanced work in the period after 1715 and, ordinarily, six hours of advanced work in the period before 1715.

In addition to fulfilling these distribution requirements a student may, if she wishes, design a major which will emphasize but not concentrate exclusively on a period (e.g., ancient, medieval), an area (e.g., the Americas, Western Europe), or a special aspect of history (e.g., diplomatic, intellectual).

PLACEMENT AND EXEMPTION EXAMINATIONS

Students who before entering college have had unusual preparation in European history with regard to both amount and type of training may apply for examination for exemption from the requirement for distribution, or for entrance directly into grade II work. In addition to the evidence offered by the examination, they will be expected to give further indication of their training by submitting papers prepared in secondary school for their class in history.

INTERDEPARTMENTAL COURSES

107.** INTERPRETATIONS OF MAN IN WESTERN LITERATURE (6 hrs.)

Representative views of the nature of man, and of his relation to the universe and society, reflected in the work of major writers of the Western world; the expression of their thought in significant artistic form, such as epic, drama,

** This course may be elected to fulfill the literature requirement in Group I.

essay. Open to sophomores, juniors, and seniors, and to specially qualified freshmen by permission of the Dean of Freshmen. *Miss Taylor, Miss McPherrin*

201 (1).** RUSSIAN LITERATURE IN TRANSLATION (3 hrs.)

Russian literature from its beginning to the middle of the 19th century with emphasis upon the works of Pushkin, Lermontov, Gogol', and Turgenev. Open to juniors and seniors without prerequisite. *Mrs. Banerjee*

202 (2).** RUSSIAN LITERATURE IN TRANSLATION (3 hrs.)

Russian literature from the second part of the 19th century to the present with emphasis upon the works of Dostoyevskij, Tolstoy, Chekhov, and the Soviet writers. Open to juniors and seniors without prerequisite. *Mrs. Banerjee*

218.*** HISTORY OF SCIENCE (6 hrs.)

A course designed to trace the development of scientific ways of thinking and to show how scientific ideas, methods and theories both reflect and influence man's thought in other areas. Topics from physical and biological science selected from several historical periods. Open to juniors and seniors who have taken six hours in a laboratory science and in history or philosophy.
Miss Webster

INTERDEPARTMENTAL MAJOR

For description of an interdepartmental major in Classical Archeology, see page 48.

ITALIAN

Professor: GRAZIA AVITABILE, PH.D. (Chairman)
Assistant Professor: ZINA TILLONA, D.M.L.

All courses except 103 are conducted in Italian. In all courses except seminars some work will be required in the laboratory.

Qualified students are permitted to spend the junior year in Italy with the foreign study group of Smith College.

A summer term at the Italian School, Middlebury College, is recommended.

101. ELEMENTARY COURSE (6 hrs.)

Development of basic language skills. Frequent oral and written exercises. Reading of modern short stories and plays. A general view of Italian civilization. Two periods and laboratory. *The Staff*

103. INTRODUCTION TO THE ITALIAN RENAISSANCE (6 hrs.)

First semester: the elements of Italian grammar and reading of selections in Italian to develop reading skill. Second semester: reading in Italian and discussion in English of selections from outstanding Renaissance authors such as: Petrarca, Boccaccio, Vasari, Machiavelli, Castiglione, Ariosto. No prerequisite. Open to juniors and seniors who have not taken 101 or its equivalent. (Not given in 1963-64.) *Miss Avitabile*

200. SIGNIFICANT MOMENTS OF ITALIAN LITERATURE (6 hrs.)

Important literary movements interpreted through the study and analysis of

** This course may be elected to fulfill the literature requirement in Group I.
*** This course may be elected to complete the distribution requirement in Group III after the student has taken a six-hour laboratory course.

two or three representative works from each of the following periods: Medieval, Renaissance, Romantic, and Contemporary. Prerequisite, 101.
Miss Avitabile

201. FROM VERISMO TO POST NEO-REALISMO (6 hrs.)

A study of the main literary trends of the last century as seen in the works of representative authors such as: Verga, Carducci, Pascoli, Pirandello, Moravia, Vittorini, Calvino, Ungaretti. Prerequisite or corequisite, 200. *Miss Tillona*

203 (1). INTERMEDIATE ITALIAN (3 hrs.)

Emphasis on oral and written expression through the use of material which deals with contemporary Italy. Prerequisite, 101. *Miss Tillona*

204. ITALIAN LITERATURE OF THE NINETEENTH CENTURY (6 hrs.)

Romanticism, classicism, nationalism, realism. An intensive study of selected works by Foscolo, Manzoni, Leopardi, Carducci, Verga, and Pascoli. Prerequisite, 101. (Not offered in 1963-64.) *Miss Avitabile*

301.† DANTE (6 hrs.)

A study of Dante's *Divina Commedia* and minor works. Prerequisite, 200.
Miss Avitabile

302 (2). ADVANCED ITALIAN (3 hrs.)

Analysis and translation of contemporary Italian prose. Oral and written exercises aimed at developing style and precision of expression. Prerequisite, 203 or by permission. *Miss Tillona*

305.† THE ITALIAN RENAISSANCE (6 hrs.)

Major trends of the Renaissance as reflected in the works of authors such as Petrarca, Boccaccio, Alberti, Machiavelli, Castiglione, Ariosto, and Tasso. Prerequisite, 200. *Miss Tillona*

309.† (1) or (2). SEMINAR. ITALIAN ROMANTICISM (3 hrs.)

Research in some significant phases of Italian Romanticism. Open by permission. *Miss Avitabile*

350.† RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open by permission to juniors and seniors who have taken or are taking a course of grade III in the department.

DIRECTIONS FOR ELECTION

To fulfill the literature requirement in Group I, students may elect any course except 101, 103, 203, and 302.

It is recommended that students majoring in Italian take as related work at least one course in another literature, ancient or modern, and one or more courses in European history and art, and in philosophy. Majors are advised to include in their programs 302.

Course 101 may not count toward the major.

† It will be the privilege of students in grade III courses to have access to the manuscripts and early—often contemporary—editions of Italian authors contained in the Frances Pearsons Plimpton Collection in the college library.

LATIN

Professors: MARGARET ELIZABETH TAYLOR, PH.D. (Chairman); CHARLOTTE ELIZABETH GOODFELLOW,[1] PH.D.
Assistant Professor: MARY ROSENTHAL LEFKOWITZ, PH.D.

Lecturer: KATHERINE ALLSTON GEFFCKEN, PH.D.

102. BEGINNING LATIN (6 hrs.)

A course designed to enable students to acquire in one year the basic preparation for the reading of Latin authors. Form, syntax, reading of simple Latin and selections from classical writers. Open to students who do not present Latin for admission. Three periods. (Not given in 1963-64.) *The Staff*

103. VERGIL AND LYRIC POETRY (6 hrs.)

Epic: Selections from the *Æneid;* Lyric: Catullus and Horace. Prerequisite, two admission units of Latin or three units not including Vergil, or 102.
Miss Geffcken

201. LATIN LITERATURE OF THE REPUBLIC AND EARLY EMPIRE (6 hrs.)

Reading of the first semester drawn from a variety of types and authors: the lyrics of Catullus, a comedy of Plautus or Terence, and an essay of Cicero; the second semester largely devoted to the Odes of Horace. Prerequisite, four admission units of Latin or 106; or three units including one of Vergil.
Miss Taylor

206.* COMPOSITION (2 hrs.)

Studies in syntax and the writing of Latin prose. Prerequisite, 103 or 106 or 201. *Miss Taylor, Miss Geffcken*

211 (1). LUCRETIUS (3 hrs.)

Reading from the *De Rerum Natura,* the poetry and philosophy of Epicureanism. Prerequisite, 103 or 201. *Miss Taylor*

212 (2). IDEALS OF EARLY ROME (3 hrs.)

Selections from the authors of the Golden Age, especially Livy, and Cicero, correlated with the student's earlier reading of Vergil and Horace. Prerequisite, 103 or 201. *Miss Geffcken*

302 (1).* SATIRE. HORACE AND JUVENAL (3 hrs.)

The origin and development of satire as a literary form. Special emphasis upon the satires of Horace and Juvenal. Prerequisite, 211 and 212. (Not offered in 1963-64.)

305 (1).* COMEDY. PLAUTUS AND TERENCE (3 hrs.)

Careful study of representative plays followed by the rapid reading of others. The sources of Latin comedy, its linguistic and literary features, and its influence upon later literature. Prerequisite, same as for 302. *Miss Geffcken*

[1] Absent on leave.
* Offered in alternate years.

306 (2).* STUDIES IN ROMAN RELIGION (3 hrs.)

The changing religious experience of the Republican period and of the early Empire; the influence of oriental cults. Readings from the sources, especially from Livy, Cicero, and Ovid. Prerequisite, same as for 302. (Not offered in 1963-64.) *Miss Taylor*

309 (1).* PROSE LITERATURE OF THE EARLY EMPIRE (3 hrs.)

History: Livy, Tacitus, Suetonius, Velleius Paterculus. Reading based on choice of topics. Prerequisite, same as for 302. (Not offered in 1963-64.) *Miss Goodfellow*

310 (2).* LIFE AND TIMES OF CICERO (3 hrs.)

Readings from the works of Cicero as sources for the study of the life and thought of the late Roman Republic. Additional readings from his contemporaries which illuminate the period. Prerequisite, same as for 302. *Miss Geffcken*

311.* VERGIL (6 hrs.)

The *Eclogues, Georgics, Æneid.* The poet's achievement in the pastoral, didactic and heroic epic; studies in his literary inheritance from the Greek and his influence on later literature. Prerequisite, same as for 302. By permission the first semester may be taken independently. *Miss Taylor*

312 (2).* POETRY OF THE EMPIRE (3 hrs.)

Elegy: Tibullus, Propertius, Ovid. Selections from representative poets of the later period. Prerequisite, same as for 302. (Not offered in 1963-64.)

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open by permission to juniors and seniors.

DIRECTIONS FOR ELECTION

All courses except 102, 206, and 306 meet the literature requirement in Group I. Latin 102 counts for the degree but does not count toward the major.

Students intending to major in Latin are advised to take at least one course in Greek and History 303. Attention is also called to Art 201 and 209 and to courses in ancient philosophy.

Students who plan to do graduate work in classics are reminded that work in both Greek and Latin is usually required.

Students interested in Medieval Latin should consult the department chairman.

Students interested in archaeology are referred to the interdepartmental major in Classical Archaeology (see page 49).

MATHEMATICS

Professors: HELEN GERTRUDE RUSSELL,[1] PH.D.; ALICE TURNER SCHAFER, PH.D. (Chairman)
Associate Professor: JACQUELINE PASCAL EVANS, PH.D.
Assistant Professor: JUDITH HIRSCHFIELD OBERMAYER, PH.D.
Instructors: CAROLE COLEBOB LABROUSSE, M.A.; ROBERT LESLIE PIERCE, M.A.
Lecturer: ESTHER COMEGYS, PH.D.

* Offered in alternate years.
[1] Absent on leave.

Students should consult the announcements of the departments of astronomy, chemistry, economics, philosophy, and physics for courses to which mathematics is either an absolute or an alternative prerequisite.

106. INTRODUCTORY MATHEMATICS (6 hrs.)

Plane trigonometry, plane analytic geometry and an introduction to calculus with emphasis on fundamental unifying mathematical concepts and the interrelationship of mathematical systems of thought. Prerequisite, three admission units in mathematics. *The Staff*

109. ANALYTIC GEOMETRY, INTRODUCTION TO THE CALCULUS (6 hrs.)

Differential calculus of algebraic and transcendental functions including applications to the geometry of the conic sections; introduction to integral calculus. Prerequisite, four admission units in mathematics, or, by permission, three admission units with a substantial course in trigonometry. *The Staff*

202. DIFFERENTIAL AND INTEGRAL CALCULUS (6 hrs.)

A study of the derivative and the integral including geometric and physical interpretations. Prerequisite, 106, or, by permission, four admission units in mathematics with a substantial introduction to the calculus. *The Staff*

204. INTERMEDIATE CALCULUS (6 hrs.)

Extension of the study of differential and integral calculus begun in 109. Prerequisite, 109. *The Staff*

205 (1).* INTRODUCTION TO MATHEMATICAL STATISTICS (3 hrs.)

Fundamental statistical methods, with special emphasis on the use of elementary mathematics and calculus in the development of theory and in practice. Assigned laboratory work included. Prerequisite, 202 or 204. (Not offered in 1963-64.) *Mrs. Obermayer*

302. ADVANCED CALCULUS (6 hrs.)

Infinite series; functions of several real variables; introduction to complex variable theory. Prerequisite, 202 or 204. *Miss Evans*

303 (1).† DIFFERENTIAL EQUATIONS (3 hrs.)

An introductory course in ordinary differential equations. Prerequisite, same as for 302. *Mrs. Labrousse*

305. MODERN ALGEBRAIC THEORY (6 hrs.)

Introduction to algebraic systems including groups, rings, integral domains, fields, vector spaces; polynomials; linear transformations, matrices, determinants. By permission, the first semester of this course may be taken for credit by students not majoring in mathematics. Students who have taken 306 (1) may take the second semester of 305 for credit. Prerequisite, same as for 302. *Mrs. Schafer*

* Offered in alternate years.

† Physics 304 and Physics 306 may be counted toward a major in mathematics. Physics 306 must be preceded by Mathematics 303.

309 (2).° PROJECTIVE GEOMETRY (3 hrs.)

Concepts and theorems of projective geometry developed by both synthetic and analytic methods. Prerequisite, 202; prerequisite or corequisite, 204. (Not offered in 1963-64.) *Mrs. Schafer*

310 (1). FUNCTIONS OF A COMPLEX VARIABLE (3 hrs.)

Elementary functions and their mapping properties; integration theory; series expansions of analytic functions. Prerequisite, 302. *Mrs. Obermayer*

311 (2). ELEMENTARY TOPOLOGY (3 hrs.)

Elementary topology with applications to function theory: set theory, metric spaces, mappings and related topics. Prerequisite, same as for 310. *Mr. Pierce*

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open to seniors by permission.

DIRECTIONS FOR ELECTION

A major must include 12 hours of grade III in mathematics. At least three of these hours must be taken in each semester of the senior year. For the Class of 1964, courses 302 and either 306 or the first semester of 305 will be required in the major.

Beginning with the Class of 1965, courses 302 and 305 will be required in the major.

PLACEMENT AND EXEMPTION EXAMINATIONS

An examination for exemption from a course in mathematics to satisfy partially the distribution requirement in Group III will be offered to students who have been unusually well prepared in algebra, trigonometry, analytic geometry, and the elements of differentiation and integration.

Students desiring to enter directly into grade II work may either apply for the exemption examination or give evidence of having completed the work in secondary school in a satisfactory manner.

MUSIC

Professor: HUBERT WELDON LAMB, MUS.D.(HON.) (Chairman)

Assistant Professors: OWEN HUGHES JANDER, PH.D.; WILLIAM A. HERRMANN, JR., PH.D.; JOHN CHARLTON CRAWFORD, PH.D.

Instructor: ELINOR L. DUFF, M.A.

Lecturer: EVELYN CLAIRE BARRY, M.A.

Instructors in Practical Music: DAVID BARNETT, B.A.; MUS.D. (Hon.) (Piano); ALFRED ZIGHERA (Cello); KLAUS GOETZE (Piano); RUTH POSSELT BURGIN (Violin); JAMES PAPPOUTSAKIS (Flute); FRANK COCHRAN TAYLOR II, B.A. (Organ); ELEANOR MIRIAM DAVIS, M.MUS. (Voice); EUGENE LEHNER (Viola); LOUISE CAME PAPPOUTSAKIS (Harp); LOUIS SPEYER (Oboe and English Horn); LOIS F. PARDUE, B.M. (Organ); HARRY SHAPIRO (Horn); FELIX ALFRED VISCUGLIA, MUS.B. (Clarinet)

Secretary and Custodian: M. EVA ARMSTRONG, B.A.

° Offered in alternate years.

101. INTRODUCTORY COURSE (6 hrs.)

Notation, modes, intervals, chords. Terminology. Drill in ear training, sight singing, clef reading, and transposition. Introduction to classical harmony. Open to all undergraduates. Three periods, one lecture and two section meetings. *Miss Barry*

103. INTRODUCTION TO THE LITERATURE OF MUSIC (6 hrs.)

An historical survey course designed to develop the student's musical understanding, insight, and powers of observation through the study of music of various styles and periods. No previous knowledge of music required. Open to sophomores, juniors, and seniors who have taken no other course in the department, and to freshmen by permission of the chairman. Not to be counted toward a major. Two periods of lecture and one section meeting.
Mr. Herrmann, Mrs. Duff

200. SURVEY OF DESIGN IN MUSIC (6 hrs.)

A survey of materials and methods of composition from the earliest times to the present. Prerequisite, 101. *Mr. Jander*

203. COUNTERPOINT (6 hrs.)

The principles of two- and three-part writing. Analysis. Prerequisite, 101.
Mr. Lamb, Mr. Crawford

209 (1). THE CLASSICAL PERIOD (3 hrs.)

The development of the classical sonata, string quartet, symphony, and concerto. Prerequisite, 101 or 103. Not to be counted toward a major. *Mr. Jander*

210 (2). THE ROMANTIC PERIOD (3 hrs.)

Study of the larger forms of the 19th century through analysis of selected works. Prerequisite, same as for 209. Not to be counted toward a major. (Not offered in 1963-64.) *Mr. Jander*

214 (2). THE TWENTIETH CENTURY (3 hrs.)

An introduction to contemporary music through analysis of representative compositions. Prerequisite, 200 or 202 or 209. Not to be counted toward a major. *Mr. Jander*

303 (1). THE MIDDLE AGES AND THE RENAISSANCE (3 hrs.)

Selected studies in music before 1600. Prerequisite 200 or 202. *Mr. Jander*

306 (1). THE SEVENTEENTH CENTURY (3 hrs.)

Studies in baroque style. Prerequisite, same as for 303. (Not given in 1963-64.)
Mr. Jander

307 (2). THE OPERA (3 hrs.)

A study of operatic forms, styles, and traditions from the time of Mozart to the present. Open to juniors and seniors who have taken six hours of grade II.
Mr. Herrmann

309 (2). BACH (3 hrs.)

The style of J. S. Bach and its place in the history of music. Analysis of selected vocal and instrumental works. Open to juniors and seniors who have taken 200 or 202 and one of the following: 201, 203, 300, 301. (Not given in 1963-64.) *Miss Barry*

312. Harmony (6 hrs.)

The figured bass. Harmonization of melodies. Analysis. Prerequisite, 201 or 203 or 301. Three periods. *Mr. Crawford*

316. Introduction to Composition (6 hrs.)

Advanced studies in theory. The principles of instrumentation. Composition for various chamber music combinations. Prerequisite, 203 or 301, and 310 or 312. (Not offered in 1963-64.) *Mr. Lamb*

318 (1). Seminar. Beethoven (3 hrs.)

The development of the style of Beethoven to its culmination in the *Ninth Symphony,* the *Missa Solemnis,* and the last quartets. Prerequisite, same as for 309. *Mr. Lamb*

319 (2). The Nineteenth Century (3 hrs.)

A study of the principal styles of the romantic period. Prerequisite, same as for 303. *Miss Barry*

325 (2). Seminar. Stravinsky (3 hrs.)

A study of the more important works and of their place in the music of the 20th century. Prerequisite, same as for 303. *Mr. Lamb*

350. Research or Independent Study (3 or 6 hrs.)

Directed study in theory, orchestration, composition, or the history of music. Open to seniors by permission.

Practical Music (Instrumental and Vocal Lessons)*

Instruction is provided in piano, organ, violin, violoncello, and voice, and arrangements may be made for private instruction in other instruments. Though no academic credit is given for such study, the department strongly recommends it as a complement to the course work in music. Students in piano who wish to do so may supplement their private lessons with group study which is available to them without additional charge as part of the piano course. Advanced students of string instruments or piano are eligible, also without additional charge, for group instruction in the performance of chamber music.

Students may take practical music provided they take or have already taken a college course in the theory of music. Practical music is an elective, and students wishing to take it should notify the department in accordance with the procedure required for the election of an academic course.

Instruction in practical music is available to graduates of Wellesley College and to residents of the town of Wellesley by special arrangement.

Practical music study is normally undertaken on a yearly basis, though with the permission of the chairman of the department it may be elected for a single

* Students who elect practical music are charged at the rate of $140.00 for a half-hour lesson per week throughout the year. The charge for the use of a practice studio is $20.00 per year for one period daily. The charge for a daily period of organ practice is $30.00. Practical music fees are payable in advance by semesters, and are not subject to return or reduction except upon recommendation of both the Dean of Students and the department chairman.

semester only. Students whose work proves unsatisfactory may be required to discontinue their lessons.

The College subscribes for eight seats in the Saturday series of the Boston Symphony Orchestra. Tickets for these concerts are available at cost, and students taking music courses are given preference in the use of them.

DIRECTIONS FOR ELECTION

Students wishing to major in music should consult with the chairman of the department, who will advise them in planning their work both in the major and in such related fields as European history, literature, and art. Those who propose after graduation to continue into musicology should note that a reading knowledge of both French and German is essential for work in that field, and that in addition a certain proficiency in Italian and in Latin is highly desirable.

PLACEMENT AND EXEMPTION EXAMINATION

An examination for exemption from Music 101, and for advanced standing, is offered to qualified students.

PHILOSOPHY

Professor: VIRGINIA ONDERDONK, B.A.
Associate Professor: ELLEN STONE HARING, PH.D. (Chairman)
Assistant Professors: INGRID HESS STADLER,[1] PH.D.; VICTOR GOUREVITCH, PH.D.

Lecturers: RUTH ANNA PUTNAM, PH.D.; RILLA MARY PHILLIPS, PH.D.

Visiting Lecturers: ROBERT PAUL WOLFF, PH.D.; SETH BENARDETE, PH.D.

Instructor: ADELE RUTH SPITZER, PH.D.

101 (1) (2). INTRODUCTION TO CLASSICAL PHILOSOPHY (3 hrs.)

A study of the writings of Plato and Aristotle in order to investigate the nature of philosophical inquiry, and to examine theories fundamental in Western thought, i.e. of the universe, man, society. Open to all undergraduates.
The Staff

102 (1) (2). INTRODUCTION TO PHILOSOPHICAL ANALYSIS (3 hrs.)

An examination of philosophical problems such as freedom and determinism, perception and the physical world, and the existence of God. Readings from classical and contemporary sources. Emphasis on analysis, the use of evidence, and the student's attempt to construct solutions. Open to freshmen who have taken 101 and to others without prerequisite. *Mrs. Putnam, Miss Phillips*

104 (2). INTRODUCTION TO MORAL PHILOSOPHY (3 hrs.)

An examination of some outstanding moral theories, discussion to include such topics as the good, the right, freedom, moral obligation. Open to freshmen who have taken 101, and to others without prerequisite. *The Staff*

201 (2). FURTHER STUDIES IN PLATO AND ARISTOTLE (3 hrs.)

A comparative study of the two decisive originators of Western philosophy, with emphasis upon their theories of knowledge and being. The reading will include early and later dialogues of Plato and selections from Aristotle's *Analytics*, *Physics*, and *Metaphysics*. Prerequisite, 101. *Mrs. Haring*

[1] Absent on leave.

203 (1). AESTHETICS (3 hrs.)

An examination of some major traditional and contemporary theories of art and art criticism. Emphasis on the clarification of key concepts, such as style, meaning, truth, and on methods used in solving such central problems as the justification of judgments about beauty and artistic excellence. Open to sophomores who have taken a course in the department and to juniors and seniors without prerequisite. (Not offered in 1963-64.) *The Staff*

206 (1). ETHICAL THEORY (3 hrs.)

A systematic study, stressing contemporary works in ethics, of the problems of the meaning and justification of moral judgments and the nature of moral reasoning. Open to students who have taken one course in the department.

Mrs. Putnam

211 (1).* PHILOSOPHY OF RELIGION (3 hrs.)

A philosophical examination of basic problems regarding the nature of religion and the grounds of religious belief. Open to juniors and seniors.

Miss Spitzer

214. STUDIES IN THE DEVELOPMENT OF MODERN PHILOSOPHY (6 hrs.)

A study of important European philosophies from Descartes to Nietzsche designed to give students a knowledge of the chief philosophical systems and to provide some philosophical background for the understanding of related movements in literature and the natural and social sciences. Prerequisite, same as for 203. *The Staff*

215 (1) (2). TRENDS IN RECENT PHILOSOPHY (3 hrs.)

An introduction to four schools of contemporary philosophy (Pragmatism, Positivism, Linguistic Analysis, Existentialism); careful study of a few representative works. The course is designed to provide a background for intelligent participation in current philosophical discussion. Prerequisite, 214 or permission of the instructor. *Miss Phillips*

216 (1). FUNDAMENTAL PRINCIPLES OF LOGIC (3 hrs.)

A study of the forms of valid reasoning with emphasis on the analysis and symbolic formulation of ordinary English sentences and the deduction of simple conclusions. Some discussion of such notions as *implication, proof, consistency, definition, postulate.* Open to sophomores who have taken a course in philosophy or mathematics, and to juniors and seniors without prerequisite.

Mrs. Putnam

217 (2).* PHILOSOPHY OF SCIENCE (3 hrs.)

A study of the logical structure of scientific inquiry, including analysis of key concepts such as "law," "theory," and "explanation," with some discussion of the implications for philosophy of a scientific outlook. Open to sophomores who have taken 216 and to juniors and seniors without prerequisite.

Mrs. Putnam

218. ** **HISTORY OF SCIENCE** (6 hrs.)

For description and prerequisite, see Interdepartmental 218.

* Offered in alternate years.

** Counts as related work but not as part of a major in philosophy.

306 (2). ADVANCED LOGIC (3 hrs.)

A study of modern developments of logic including a discussion of the nature of a deductive system, the logic of classes, and the calculus of propositions. Prerequisite, 216. *Mrs. Putnam*

311 (1). KANT (3 hrs.)

An intensive study of the philosophy of Kant, with some consideration of Kant's position in the history of philosophy. Prerequisite, 214. *Mr. Wolff*

312 (2). CONTEMPORARY EUROPEAN PHILOSOPHY (3 hrs.)

A study of central themes in contemporary European philosophy, emphasizing phenomenology and existentialism. Prerequisite, 12 hours of philosophy including 214. *Mr. Gourevitch*

321 (2). SEMINAR. THEORIES OF KNOWLEDGE (3 hrs.)

An inquiry into the nature of knowledge and truth. Readings chosen primarily from contemporary material. Prerequisite, 214, or 216 and 217. *Miss Spitzer*

322 (1). SEMINAR. METAPHYSICS (3 hrs.)

An examination of theories about the ultimate constituents of reality, focusing on Whitehead's system but with some reference to other philosophies. Prerequisite, 214. *Mrs. Haring*

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open to juniors and seniors by permission.

DIRECTIONS FOR ELECTION

To fulfill the distribution requirement, students may elect six hours from among the grade I and II courses except 211, 216, and 218.

A major in philosophy must include 201, 214, 321 and 322.

All majors are urged to take 216, and are advised that a knowledge of Greek or French or German is desirable.

PHYSICAL EDUCATION

Associate Professor: BETTY SPEARS, PH.D. (Director)
Assistant Professor: JANE ANN SCHOONMAKER, M.S.
Instructors: EVELYN BOLDRICK HOWARD, M.S.; GEORGIA MAY HULAC, M.ED.; ANNE PEPPER NEAL, B.S.; SYLVIA ANN CARLIER ROWBOTHAM, DIPL.; LINDA KENT VAUGHAN, M.A.; ROSE ROCHMAN LANGBERT, M.S.; SYBIL ANN SHONYO, B.S.; JOANNE MARGARET LUNT, M.F.A.

Registrar: ANNA POWELL WALKER
Secretary: CLARA HELEN ANDERSON
Musician for the Dance: KATHRYN R. HODGSON

The Department of Physical Education provides opportunities for students to achieve and maintain sufficient strength and vitality to meet the demands of a normally active life, to acquire skills in sports and active recreation in which they may participate in college and throughout adult life, to develop good carriage and to understand the basic principles of body movement in daily life activities as well as in physical education activities.

Two periods a week of physical education are required for freshmen and sophomores. A student's choice of activity is subject to approval of the department, on the basis of the results of the medical and physical examinations. The activity program of each year is divided into four seasons: fall, winter (1), winter (2), and spring. In the course of her work in physical education, each student is expected to choose at least two seasons of individual sport (the same or a different sport) and at least one season of a group activity (i.e. a team sport, synchronized swimming or dance). All students are enrolled in fundamentals of movement during winter (1) of the freshman year.

Posture requirement: Every student is expected to attain a satisfactory grade on her posture photographs. Enrollment in course 125 will be required for students who fail to merit a satisfactory grade before the winter season of the sophomore year. Enrollment in this course is required until the standard is attained, or until the end of the winter season of the senior year. Freshmen who demonstrate good posture in the fall and spring photographs will not have to be photographed in the sophomore year.

Wellesley students are free to use the college's sixteen tennis courts, two hockey fields, nine-hole golf course, Lake Waban with its Crew and Skiff House for crew (rowing teams) and canoeing, as well as an archery range and skiing facilities. Indoor sports are concentrated in the Mary Hemenway Gymnasium and Recreation Building where the George Howe Davenport Swimming Pool is located.

121 and 122. ACTIVITIES

Choice of the following. *Fall:* Archery, canoeing, crew, diving, field hockey, golf, modern dance, riding, swimming, synchronized swimming, tennis, volleyball. *Winter* (1): Freshmen: Fundamentals of movement. Sophomores: Badminton, basketball, diving, fencing, folk dance, gymnastics, modern dance, pre-classic dance forms, skiing, squash, swimming, synchronized swimming. *Winter* (2): Badminton, basketball, choreography (swimming and dancing), diving, fencing, folk dance, gymnastics, modern dance, preclassic dance forms, Scottish dancing, skiing, squash, swimming, synchronized swimming. *Spring:* Archery, canoeing, crew, diving, golf, lacrosse, modern dance, riding, swimming, tennis, volleyball. Required of freshmen and sophomores, two periods a week.

The Staff

124 and 125. POSTURE AND BODY MECHANICS

Recommended for freshmen and sophomores whose orthopedic or medical condition indicates the need of individually planned exercise. Two periods a week; Sophomores: *Winter* (1) or (2); Freshmen: *Winter* (2), with 121 and 122 *Fall* and *Spring*.

127 and 128. TECHNIQUE OF TEACHING ACTIVITIES OR OF OFFICIATING

Recommended for students planning to assist in teaching in a summer camp, playground, social service agency, or recreation center. *First Semester:* Senior life saving, modern dance. *Second Semester:* Camp leadership, senior life saving, water safety instructors. *Spring:* Tennis, canoeing. Any of these courses may be substituted for part of the activity requirement except by freshmen during *Winter* (1). Prerequisite, basic skills in the particular activity, and permission of the instructor. Permission of the class dean is required for water safety instructors' course which meets three periods a week. *The Staff*

131 and 132. MODIFIED ACTIVITIES

Choice of the following: *Fall:* Archery, canoeing, golf, riding, swimming, tennis, volleyball. *Winter* (1): Freshmen: Modified fundamentals of movement. Sophomores: Badminton, fencing, folk dance, swimming, recreational activities. *Winter* (2): Badminton, fencing, folk dance, swimming, recreational activities. *Spring:* Archery, canoeing, golf, riding, swimming, tennis, volleyball. Required of freshmen and sophomores whose physical condition indicates the need of modified activities. Two periods a week. *The Staff*

DIRECTIONS FOR ELECTION

Students (including juniors and seniors) and also faculty may elect with the permission of the department any of the activities offered.

PHYSICS

Professors: DOROTHY HEYWORTH, PH.D. (Chairman); JANET BROWN GUERNSEY,[1] PH.D.
Associate Professor: PHYLLIS JANE FLEMING, PH.D.

Lecturer: CATHERINE BURKE RICE,[5] M.A.

Assistants: IRENE STARR, B.A.; MARY M. MARTIN,[4] B.A.

Secretary: ANNE FRICKE PURDY, B.A.

101. ELEMENTARY PHYSICS (6 hrs.)

Designed to give an intelligent understanding of man's physical environment and the everyday applications of the fundamental laws of mechanics, heat, electricity, sound, and light. Open to students who are not eligible for 105. Two and one-half periods of lecture and discussion with one three-period laboratory appointment. *Miss Heyworth*

104. ELEMENTARY PHYSICS (6 hrs.)

The same topics as in course 101, but with greater emphasis upon the mathematical development of the subject. Open to students who are not eligible for 105. Prerequisite, three admission units in mathematics. Two and one-half periods of lecture and discussion with one three-period laboratory appointment. *The Staff*

105 (1). FUNDAMENTAL PRINCIPLES OF PHYSICS (3 hrs.)

Selected topics in mechanics; wave motion and its applications in sound and light; current electricity. Open to students who offer physics for admission, and who have taken Mathematics 106 or 107 or are taking Mathematics 109. Two and one-half periods of lecture and discussion, with one three-period laboratory appointment. *Miss Fleming*

200 (2). MODERN PHYSICS (3 hrs.)

Introduction to the kinetic theory of gases. Waves and particles; atomic and nuclear structure. Optical and X-ray spectra; the periodic table of elements. Radioactive decay. Prerequisite, 101, 104, 105, or exemption from 105. Two periods of lecture and discussion with laboratory work. *Miss Fleming*

[1] Absent on leave.
[4] Appointed for the first semester only.
[5] Appointed for the second semester only.

201 (1). ELECTRICITY AND OPTICS (3 hrs.)

Fundamental laws of electric and magnetic fields; electric circuits; electric and magnetic properties of matter; physical optics. Prerequisite, Physics 101, 104, or 105; and Mathematics 106, 107, or 109. Two periods of lecture and discussion, with one three-period laboratory appointment. *Miss Fleming*

206 (2). ELECTRONICS (3 hrs.)

Fundamental principles of electron tubes and transistors; application to power supplies, amplifiers, oscillators, modulators. Introduction to non-linear electronic circuits. Prerequisite, 201. Two periods of lecture and discussion, with one three-period laboratory appointment. *Mrs. Rice*

303 (1). NUCLEAR PHYSICS (3 hrs.)

Static properties of atomic nuclei. Properties of charged particles, neutrons, and gamma rays; their interactions with matter. Natural and artificial radioactivity. Nuclear reactions. Prerequisite, 200 or its equivalent. (Not given in 1963-64.) *Mrs. Guernsey*

304 (2).† ELECTROMAGNETIC THEORY (3 hrs.)

Maxwell's equations; electromagnetic waves and radiation; physical optics. Prerequisite, 201 and 306. (Not offered in 1963-64.) *Mrs. Guernsey*

305 (2). THERMODYNAMICS (3 hrs.)

The laws of thermodynamics; kinetic theory of gases; statistical mechanics. Lagrangian and Hamiltonian mechanics. Prerequisite, Physics 101, 104, or 105; and Mathematics 202 or 204. *Miss Heyworth*

306 (1).† MECHANICS (3 hrs.)

A vector analytical presentation of Newtonian mechanics; introduction to Lagrangian and Hamiltonian mechanics. Prerequisite, same as for 305. (Not offered in 1963-64.)

Miss Fleming

309 (2). ADVANCED EXPERIMENTAL PHYSICS (3 hrs.)

Fundamental experiments selected from different fields of physics. Prerequisite, 200 or its equivalent, and 201. Five periods of laboratory. (Not offered in 1963-64.) *Mrs. Guernsey*

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open by permission to juniors and seniors.

DIRECTIONS FOR ELECTION

A major in physics should ordinarily include 201, 206, 303, 304, 305, 306. Mathematics 202 or 204 and a year of college chemistry or its equivalent are required for a major in physics. Attention is also called to courses in astronomy as appropriate for related work. A reading knowledge of two of the following languages is desirable: French, German, Russian.

Premedical students are referred to the requirements as given on page 32.

† Mathematics 303, if followed by Physics 304 and 306, may be counted toward a major in physics.

PLACEMENT AND EXEMPTION EXAMINATIONS

An examination for exemption for Physics 105 is offered to qualified students who present one admission unit in physics. Students who pass this examination and who present an acceptable laboratory notebook will be eligible for grade II work in physics.

POLITICAL SCIENCE

Professors: OWEN SCOTT STRATTON, PH.D.; ALONA ELIZABETH EVANS, PH.D. (Chairman)
Assistant Professors: DANTE LEE GERMINO, PH.D.; BARBARA BUCKSTEIN GREEN, PH.D.; PHILIP MONFORD PHIBBS, PH.D.
Instructors: HENRY JOHNSON PRATT, PH.D.; ALAN HENRY SCHECHTER, B.A.; GEORGE ERIC HANSEN, M.A.L.D.
Visiting Lecturers: ROBERT DERYL HAYTON,[5] PH.D.; PHILIPP SCHMIDT-SCHLEGEL,[5] LL.D.
Secretary: CHARLOTTE BOYD MURPHY, B.S.

100. INTRODUCTION TO POLITICAL SCIENCE (6 hrs.)

Fundamental political principles developed through a study of the governments of the United States, Great Britain, Soviet Russia, and other selected countries. Special emphasis upon the theory and functioning of democracy. Open to all undergraduates. *The Staff*

202 (1). POLITICAL PARTIES AND PRESSURE GROUPS (3 hrs.)

Nature and functions of parties and pressure groups; party organization; nominations and elections; campaign funds; the problem of party responsibility. Emphasis upon the United States, with some consideration of other democracies. Prerequisite, 100. *Mr. Schechter*

205 (1). POLITICAL PROBLEMS OF METROPOLITAN AREAS (3 hrs.)

Policy formation in the modern central city and suburb; the changing role of the state; implications of metropolitan politics for constitutional democracy and the two-party system; consideration of selected issues such as urban renewal and racial conflict. Prerequisite, 100. *Mr. Pratt*

206 (2). PUBLIC POLICY IN THE FEDERAL GOVERNMENT (3 hrs.)

An analysis of policy formation through a study of the organization and functions of Congress, independent regulatory commissions, and the executive branch; major political relationships between the legislative and executive branches. Prerequisite, 100. *Mr. Stratton*

208. INTERNATIONAL POLITICS (6 hrs.)

A study of contemporary world politics with special attention to international security and economic, social, and cultural cooperation; the League of Nations, the United Nations, and the Organization of American States; dependent areas and trusteeship. Prerequisite, 100, or six hours in history, economics, sociology, or geography. Not open to students who have taken or are taking 209. Recommended for students planning to take further work in international politics. *Mrs. Green, Mr. Hansen*

209 (1). INTERNATIONAL POLITICS: SEMESTER COURSE (3 hrs.)

Survey of much of the material covered in 208; the international community and the forces which influence the conduct of its members; the nature and

[5] Appointed for the second semester only.

pursuit of foreign policy; international organization and the attempts to achieve security in a divided world. Prerequisite, same as for 208. Not open to students who have taken or are taking 208. Not recommended for students planning to take further work in international politics. *Mr. Phibbs*

212 (2). COMPARATIVE GOVERNMENT: EUROPE (3 hrs.)

A functional analysis of the governmental process in Great Britain, the German Federal Republic, Soviet Russia, and other European states: consideration of methodology in comparative government, constitutionalism, electoral experimentation, political leadership, policy-making process, control of political power. Prerequisite, 100; by permission to students who have completed the first semester of 100. *Mr. Germino*

301 (2). INTERNATIONAL LAW (3 hrs.)

A study of the function of law in the international community; nature of international law, international entities, jurisdiction and responsibility, law and force in the settlement of disputes; current problems in the development of the international legal system. Open to juniors and seniors who have taken 100 and a grade II course in political science, economics, history, or sociology; or 208. *Miss Evans*

303 (1). LAW AND THE ADMINISTRATION OF JUSTICE (3 hrs.)

An introduction to the nature and functions of law; the adversary system; methods of legal development based upon an analysis of selected problems in contract, tort, and criminal law; comparison of common law and civil law systems; relation of law and politics. Open to juniors and seniors who have taken 100 and a grade II course in a social science or history; by permission to specially qualified students who have not taken 100. *Miss Evans*

304 (2). CONSTITUTIONAL LAW (3 hrs.)

The Constitution of the United States as interpreted by the Supreme Court, and the Supreme Court's role in the political process; the President's powers, interstate commerce, due process, the police power, protection of civil rights and liberties. Prerequisite, same as for 303. *Mr. Pratt*

306 (1). COMPARATIVE GOVERNMENT: ASIA (3 hrs.)

A study of politics and government in selected Asian states, including China, Japan, and India; treating dynamics of power, leadership, political institutions, problems in policy-making. Open to juniors and seniors who have taken 100 and a grade II course in political science or History 226. *Miss Evans*

307 (2). COMPARATIVE GOVERNMENT: LATIN AMERICA (3 hrs.)

A study of politics and government in selected Latin American states, including Argentina, Brazil, Chile, and Mexico; treating dynamics of power, constitutionalism, crisis government, factors underlying policy formation. Open to juniors and seniors who have taken 100 and a grade II course in political science, History 214, or who are majoring in Spanish. *Mr. Hayton*

308 (2). COMPARATIVE GOVERNMENT: SOVIET UNION AND EASTERN EUROPE (3 hrs.)

A study of politics and government in the Soviet Union and East European satellites: the interrelationship of ideology and power, leadership, political

institutions, policy formation. Open to juniors and seniors who have taken 100 and either a grade II course in Political Science or History 209 or History 313. *Mrs. Green*

315 (2). INTERNATIONAL POLITICS AND UNITED STATES FOREIGN POLICY (3 hrs.)

Intensive study of selected current problems of international politics, with emphasis upon the nature and background of each, possible solutions, and alternative policies for the United States. Open by permission to students who have taken 208 and to other specially qualified students. *Mr. Phibbs*

316 (1). HISTORY OF POLITICAL THOUGHT (3 hrs.)

The course of Western political thought from the Greeks to the early English liberals. Relation of ideas to the development of political institutions such as the *polis*, the Roman Republic and Empire, the medieval Christian Commonwealth, and the modern nation state. Open to juniors and seniors who have taken 100 and a grade II course in history, philosophy, political science or sociology; by permission to specially qualified students who have not taken 100. *Mr. Germino*

318 (1) (2). RECENT AND CONTEMPORARY POLITICAL THOUGHT (3 hrs.)

Main currents in political theory of the 19th and 20th centuries, including liberalism, the romantic reaction, socialism, communism, and fascism. Evaluation of the adequacy of the liberal conception of man and society for the present day. Open to juniors and seniors who have taken 316, or 100 and a grade II course in history, philosophy, political science or sociology. *Mr. Germino, Mrs. Green*

319 (2). THE POLITICS OF PUBLIC POLICY (3 hrs.)

Intensive study of representative contemporary American policy problems selected from such areas as agriculture, collective bargaining, public power and welfare. Emphasis on politically possible alternatives. Open to juniors and seniors who have taken 206 and one of the following: 202, 205 or 212; by permission to other specially qualified students. *Mr. Stratton*

320 (1). ELECTORAL POLITICS IN THE UNITED STATES (3 hrs.)

Intensive study of methods of selecting political leaders in the United States. Nominations, voting, campaigning, organization and operation of national and state parties. Comparison of state party systems. Open to juniors and seniors who have taken 202 and one of the following: 205, 206 or 212. *Mr. Schechter*

322 (1). SEMINAR (3 hrs.)

Intensive study of one problem or a series of related problems. Emphasis upon use of source materials. Topic for the year to be announced. Open by permission to juniors and seniors majoring in political science or related fields who have taken 12 hours in political science. *Mr. Stratton*

323 (2). SEMINAR (3 hrs.)

Intensive study of one problem or a series of related problems. Emphasis upon use of source material. Prerequisite, same as for 322. *Mr. Schechter*

324 (2). SEMINAR (3 hrs.)

Intensive study of one problem or a series of related problems. Emphasis

upon use of source material. Topic for the year to be announced. Prerequisite, same as for 322. *Mr. Schmidt-Schlegel*

350 (1) (2). RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open by permission to seniors who have taken six hours of grade III in political science.

DIRECTIONS FOR ELECTION

Political Science 100 and a minimum of six hours of grade II are required for all majors. Students planning to major in political science should elect 100 before taking 208 or 209. The courses in political science above the grade I level are classified into five fields: American Government and Politics, Comparative Government, International Politics, Public Law, and Political Theory. Students majoring in political science will be expected to elect courses in four of these five fields. Each student will take a general examination in three of the four fields which she has elected in the department.

Attention is called to the possibility of emphasizing international relations or area studies in the field of concentration.

PLACEMENT AND EXEMPTION EXAMINATIONS

A. Open to any student who considers herself qualified, either by work in preparatory school or by individual reading and study. The examination will cover approximately the material studied in the second semester of Political Science 100. This examination would exempt students from *three hours* of the distribution requirement in Group II.

B. An examination covering substantially the material of the first semester's work in Political Science 100. Open to any student who considers herself qualified, either by preparatory school work or individual reading and study. This examination would exempt students from *three hours* of the distribution requirement in Group II.

Freshmen desiring to take either examination should communicate with their class dean; other students with the department chairman.

Students passing both examinations are entitled to enter any grade II course. Students passing exemption examination A, and not intending to major in the department, may enter 202, 205, or 206.

PSYCHOLOGY

Professors: THELMA GORFINKLE ALPER, PH.D. (Chairman); EDITH BRANDT MALLORY, PH.D.

Associate Professor: CLAIRE ZIMMERMAN, PH.D.

Instructors: ELLEN SILVER GREENBERGER, PH.D.; MICHAEL DONALD ZEILER, PH.D.

Lecturer: IRVING HURWITZ, PH.D.

Research Associate: ERNST GERHART GEORG WOLF, PH.D.

Graduate Assistant: SHIRLEY S. L. WANG, B.ED.

Secretary: AMELIA ROMAKA ADINOLFI

102. INTRODUCTION TO PSYCHOLOGY (6 hrs.)

An introduction to the objective study of behavior. Topics include: perception, motivation, learning, measurement of ability, child development, social behavior. Open to all undergraduates. *The Staff*

201 (1). PSYCHOLOGICAL STATISTICS (3 hrs.)

Training in the use of statistical techniques as they have been especially adapted to the handling and evaluating of representative types of psychological data. Emphasis on developing an understanding of the possibilities and limitations of the use of statistics in psychology. Prerequisite, 102. *Miss Zimmerman*

207 (1) (2). CHILD PSYCHOLOGY (3 hrs.)

The behavior of normal children. A survey of the contributions of experimental and clinical studies of childhood, with special emphasis on patterns of parent-child relationships and current child-training theories. Prerequisite, 102. *Mrs. Alper*

209 (1) (2). EXPERIMENTAL PSYCHOLOGY: LABORATORY COURSE (3 hrs.)

Selected experiments in various fields of psychological investigation. Training in experimental method. Four periods of laboratory and one lecture period. Prerequisite, 102. *Mr. Zeiler*

210 (2). SOCIAL PSYCHOLOGY (3 hrs.)

A survey of the effects of social phenomena on behavior. Consideration of such problems as the forming of attitudes, prejudice, and social learning. Prerequisite, 102. *Miss Zimmerman*

215 (1).* PERCEPTION (3 hrs.)

Perception as an inquiry into the nature of the stimulus. A survey and detailed critique of experimental data and current theoretical concepts. Prerequisite, 102. (Not offered in 1963-64.) *Mr. Zeiler*

218 (1). MOTIVATION (3 hrs.)

Examination of specific areas of behavior, each in the light of diverse theories of motivation. An attempt to integrate motivational concepts derived from ethology, physiology, learning theory, and personality theory. Prerequisite, 102. *Mrs. Greenberger*

219 (1).* THE PSYCHOLOGY OF LEARNING (3 hrs.)

Consideration and discussion of learning theories and experimental data of theoretical significance. Basic concepts and general implications are examined. Prerequisite, 102. *Mr. Zeiler*

307 (1). PSYCHOLOGY OF THE DEVELOPMENT OF PERSONALITY (3 hrs.)

The determinants of normal personality development in childhood and adolescence. The contributions of major personality theorists. Use of the case study approach. Open to juniors and seniors who have taken 207. *Mrs. Alper*

309 (2). ABNORMAL PSYCHOLOGY (3 hrs.)

The psychology of abnormal behavior studied to throw light on the psychology of normal behavior. A study of theories offered in explanation of neurotic and psychotic behavior as well as of techniques of psychotherapy based on these theories. Open to juniors and seniors who have taken 102 and have taken, or are taking, at least six hours of work above grade I in one of the following: psychology, sociology, zoology and physiology. Also open to seniors by permission. *Mrs. Greenberger*

* Offered in alternate years.

313 (1). PSYCHOLOGICAL TESTING (3 hrs.)

Principles of psychological measurement. Individual differences in intelligence and personality. Survey of methods by which psychologists have studied these differences. Examination of selected tests. Some practice in testing. Prerequisite, 209 or 201. *Mrs. Mallory*

314 (2).* PSYCHOLOGICAL TESTS AND MEASUREMENT. ADVANCED COURSE (3 hrs.)

The functions of psychological measurement in counseling and placement. Special study of tests used in clinical, vocational and educational fields. Prerequisite, 313. (Not offered in 1963-64.) *Mrs. Mallory*

317 (2). SEMINAR IN CHILD PSYCHOLOGY (3 hrs.)

Consideration and application of some of the major research methods currently in use in the field of child psychology. Open by permission to seniors. *Mrs. Alper*

323 (2).* SEMINAR. PERSONALITY AS STUDIED BY PROJECTIVE TECHNIQUES AND RELATED METHODS (3 hrs.)

An introduction to current methods of studying personal drives and adjustment, with special emphasis on projective tests and related techniques. Prerequisite, 313. *Mrs. Mallory*

324 (2). ADVANCED EXPERIMENTAL PSYCHOLOGY (3 hrs.)

Experimental problems in a specified area of psychology. Emphasis on hypothesis formation, experimental design and methods of collecting, analyzing and interpreting data. Prerequisite, 209. (Not offered in 1963-64.) *The Staff*

325 (2). SYSTEMS OF PSYCHOLOGY (3 hrs.)

Study of major systems of psychology, with emphasis on critical analysis of central concepts and the relation between theory and empirical data. Open to junior and senior majors and to senior non-majors by permission. *Mr. Zeiler*

330 (1). SEMINAR (3 hrs.)

Study of a particular problem or area. Open to juniors and seniors who have taken six hours beyond grade I in the department or by permission of the department chairman. (Not offered in 1963-64.) *The Staff*

350 (1) (2). RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open by permission to seniors.

DIRECTIONS FOR ELECTION

A major in psychology must include 102 and 209. Course 350 may not be included in a minimum major of 24 hours.

Courses supplementary to a psychology major may include courses in education, history of science, philosophy, mathematics, political science, sociology, physics, physiology, and zoology.

Sophomores enrolled in Psychology 102 who are considering psychology as a major are advised to consult the Chairman before the end of the first semes-

* Offered in alternate years.

ter. It is often possible for such students to elect Psychology 201 or Psychology 209 concurrently with the second semester of Psychology 102.

RUSSIAN

Associate Professor: IRINA BORISOVA-MOROSOVA LYNCH, PH.D. (Chairman)
Assistant Professor: ELLA PACALUYKO,[1] PH.D.
Instructor: MARGARET DALTON, B.A.

Lecturer: MARIE NEMCOVA BANERJEE, PH.D.

100. ELEMENTARY COURSE (6 hrs.)

Grammar, oral and written exercises, reading of short stories. Open to all students. Three periods and laboratory. *The Staff*

200. COMPOSITION, CONVERSATION, AND LINGUISTICS (6 hrs.)

Intensive work in written and oral modern Russian. Studies in the structure of the Russian language. Discussions based on selected reading in classical and modern Russian literature. Prerequisite, 100 or by permission. Two periods and laboratory. *The Staff*

201 (1). RUSSIAN LITERATURE IN TRANSLATION (3 hrs.)

For description and prerequisite, see Interdepartmental 201.

202 (2). RUSSIAN LITERATURE IN TRANSLATION (3 hrs.)

For description and prerequisite, see Interdepartmental 202.

301. LITERATURE OF THE NINETEENTH AND TWENTIETH CENTURIES (6 hrs.)

Study of masterpieces of Russian literature in their intellectual setting, with special emphasis on language. Regular oral and written reports. The first semester may be taken independently. Prerequisite, 303. (Not offered in 1963-64.) *Mrs. Lynch*

303. ADVANCED READING, COMPOSITION, AND CONVERSATION (6 hrs.)

Practice in oral and written Russian. Reading of historical and literary works. Intensive work in advanced grammar. Prerequisite, 200. *Mrs. Lynch*

311 (1).* RUSSIAN LITERATURE FROM ITS BEGINNING TO PETER THE GREAT (3 hrs.)

Close scrutiny of the Byzantine, Western, and folk influences in the chronicles and epics of the Kievan and Moscovite periods. Reading of the Igor Tales, selections from Primary Chronicle, Zadonshchina, and other works. Prerequisite or corequisite, 303. (Not offered in 1963-64.) *Mrs. Lynch*

312 (2).* RUSSIAN FICTION FROM PETER THE GREAT TO THE MID-NINETEENTH CENTURY (3 hrs.)

Emphasis on Radishchev, Karamzin, Krylov, Lermontov, Pushkin, Gogol', Goncharov, Aksakov, and Turgenev. Prerequisite or corequisite, 303. (Not offered in 1963-64.)

315 (1).* DOSTOEVSKIJ AND TOLSTOJ (3 hrs.)

Study of major works, with emphasis on the novels: *Crime and Punishment,*

[1] Absent on leave.
* Offered in alternate years.

The Brothers Karamazov, War and Peace, Anna Karenina. Prerequisite or corequisite, 303. *Miss Dalton*

316 (2).* MODERN RUSSIAN PROSE (3 hrs.)

Survey of Russian prose from Chekhov to Pasternak, including representative works of Symbolist, Soviet and émigré literature. Among the authors studied: Chekhov, Gorkij, Bunin, Soloqub, Zamjatin, Nabokov (Sirin), Erenburg, A. N. Tolstoj, Sholokhov, Aldanov, Pasternak. Prerequisite or corequisite, 303. *Miss Dalton*

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open, by permission, to qualified students. *Mrs. Lynch*

DIRECTIONS FOR ELECTION

Courses 301, 311, 312, 315, and 316 may be elected to fulfill the literature requirement in Group I.

The College does not offer a major in Russian language and literature but a student who wishes to emphasize study of Russia in her field of concentration should discuss her plans with the chairman of her major department and with the chairman of the Russian department.

SOCIOLOGY AND ANTHROPOLOGY

Professors: BARTLETT HICKS STOODLEY, PH.D.; ALLAN WARDELL EISTER, PH.D. (Chairman)
Assistant Professor: ANNEMARIE ANROD SHIMONY, PH.D.
Instructor: JANET ZOLLINGER GIELE, PH.D.

Secretary: JUNE CHANDLER FLETCHER, B.A.

102 (1) (2). INTRODUCTION TO SOCIOLOGY (3 hrs.)

Analytical study of groups, institutions, and societies. Social life in relation to biological, psychological, and geographical conditions. Social stratification and social change. Normal sequel to 102 will be 103 in the second semester. Open to all undergraduates. *The Staff*

103 (2). AMERICAN SOCIETY (3 hrs.)

Concrete analysis of American society employing concepts developed in 102. Impact of technological development, population growth, racial and ethnic diversity on institutions, groups, class structure, and community organization. Normal sequel to 102. Prerequisite, 102. *The Staff*

104 (1) (2). GENERAL ANTHROPOLOGY (3 hrs.)

An introduction to man's place in nature, his physical history, and physical varieties; the nature of culture; some major phases in the growth and spread of cultures; the relation between culture and personality. *The Staff*

203 (1). SOCIAL DISORGANIZATION (3 hrs.)

Disorganization as an important aspect of social development. Social causes of, and societal reactions to, such problems in advanced societies as drug addiction, mental illness, divorce, old age. Relation of disorganization to abrupt social change. Prerequisite, six hours in the department. (Not offered in 1963-64.)

* Offered in alternate years.

204 (2).* SOCIETIES AND CULTURES OF AFRICA (3 hrs.)

Survey of the major cultures of Africa for which there are anthropological reports. Comparative study of distinctive kinship, political, economic and other social institutions. Consequences of culture contact among selected tribes and between indigenous and Asian or European cultures. Prerequisite, 102 or 104. (Not offered in 1963-64.) *Mrs. Shimony*

205 (2).* SOCIAL ANTHROPOLOGY (3 hrs.)

Comparative study of social, political, and economic organization of primitive societies. Examination of current evolutionary and functional theories of society. Stability and change of primitive groups in contact with Western culture. Prerequisite, 102, 104, or by permission. *Mrs. Shimony*

210 (1). RACIAL AND ETHNIC MINORITIES (3 hrs.)

An analysis of the problems of racial and ethnic groups in American and other societies. Systematic study of adjustment mechanisms of selected racial, religious, and immigrant minorities, with special emphasis on Negro-white relations. Prerequisite, six hours in the department, or by permission.
Mrs. Shimony

212 (1). SOCIETY AND RELIGION (3 hrs.)

Social factors in relation to the development of religious organizations, beliefs, and practices, including public policy, in the United States. Functions of religion in the culture and social organization of selected societies. Prerequisite, same as for 210. (Not offered in 1963-64.) *Mr. Eister*

222 (2). THE FAMILY (3 hrs.)

The American family as a primary group and as a social institution in the United States. Impact of the family on its individual members and its relation to the community. Comparative analysis of family structures in several cultures and of the factors affecting maintenance or change. Prerequisite, same as for 210. *Mrs. Giele*

225 (1). SOCIAL STRATIFICATION AND POWER (3 hrs.)

An analysis of the operation of power in primary groups, large-scale organizations, communities, and political movements. Particular attention will be directed to the relationship between social class and political power.
Mrs. Giele

230 (2). SOCIETY AND SELF (3 hrs.)

Social structure and processes with relation to the self studied in comparative perspective. Social factors in the life cycle. Institutionalization of goals, attitudes, and ideas. Prerequisite, same as for 210. *Mr. Stoodley*

235 (1). PUBLIC OPINION AND MASS MEDIA OF COMMUNICATION (3 hrs.)

An analysis of mass media of communication such as newspapers and television. Their relation to and effect upon modern American society. Prerequisite, same as for 210. *Mr. Stoodley*

302 (2). SOCIAL AND CULTURAL CHANGE (3 hrs.)

Review of leading theories about the nature and sources of social change.

* Offered in alternate years.

Analysis of change in the social organization, cultural patterns, and social behavior of people in selected countries. Primary focus of attention in 1963-64 on societies in transition in the Middle East and South Asia. Open to seniors who have taken 102 and are majoring in any department in Group II.
Mr. Eister

303 (2). The Modern Community (3 hrs.)

The formation of modern cities, their growth and structural development. The urban way of life and its problems. The emerging metropolitan community. Open to juniors and seniors who have taken one grade II course in the department. (Not offered in 1963-64.) *Mrs. Giele*

319 (1). Modern Sociological Theory (3 hrs.)

Assumptions relevant to current sociological theory. Development of sociology as a field. Examination of the systematic theories of such sociologists as Marx, Durkheim, Max Weber, and Parsons. Open to juniors and seniors who have taken six hours of grade II in the department. *Mr. Eister*

323 (1). Criminology (3 hrs.)

Crime, deviant behavior and society. Social factors related to criminal, delinquent, and normal behavior. Punishment and rehabilitation. Emphasis on research projects. Open to juniors and seniors who have taken nine hours in the department or Psychology 210 or 309. *Mr. Stoodley*

324 (1). Seminar. Study of Selected Problem or Area (3 hrs.)

Topic for the year 1963-64: Consideration of problems of contemporary Africa, including analysis of the complex interrelationships between tribal, social, and cultural patterns and those of the modern world. Prerequisite, 9 hours in the department or by permission. *Mrs. Shimony*

325 (2). Seminar. Methods of Social Research (3 hrs.)

An introduction to the ways sociologists collect, analyze, and interpret data. Class project will include field interviewing as well as consideration of problems of research design, questionnaire construction, and the relation of specific research to general theory. *Mrs. Giele*

350 (1) (2). Research or Independent Study (3 or 6 hrs.)

Open to juniors and seniors by permission.

Directions for Election

Majors should consult a member of the department concerning sequences of courses in sociology and related courses in other departments. Special attention is called to the courses in social statistics, Economics 211 and Psychology 201, which may be counted toward the major but not as satisfying prerequisites for admission to advanced courses in the department. All majors are required to take Sociology 319, preferably in the junior year. Students who expect to take graduate work in Sociology are urged to include 325 in their elections.

SPANISH

Professor: JUSTINA RUIZ-DE-CONDE, LIC. EN DERECHO, PH.D.
Associate Professor: CONCHA BRETÓN, DOCTORA EN LETRAS (Chairman)
Assistant Professor: BLANCHE DE PUY, PH.D.

Courses of the department are normally conducted in Spanish; oral expression is stressed.

Attention is called to the opportunities for residence in the Spanish Corridor of Wellesley College, and for study in the summer school of Middlebury College. Qualified students may also take advantage of the Junior Year in Spain. See page 30, The Junior Year Abroad. The department reserves the right to place a new student in the course for which she seems best prepared, regardless of the number of units she has offered for admission.

101. ELEMENTARY COURSE (6 hrs.)

Grammar, reading, composition, dictation, practical conversation on everyday life, short lectures in Spanish. The teaching method stresses the intensive oral approach. Open to students who do not present Spanish for admission. Three periods and laboratory. *The Staff*

102. INTERMEDIATE SPANISH (6 hrs.)

A thorough review of grammar and related language skills with intensive oral-aural practice; reading (first semester from contemporary Hispano-American authors; second semester from nineteenth century Spanish literature) with emphasis on vocabulary building, oral and written expression. Three periods and laboratory. Prerequisite, two admission units in Spanish, or 101. Open by permission to Romance language majors without prerequisite. *The Staff*

103. SPOKEN SPANISH (2 hrs.)

Intensive oral-aural practice in the common speech patterns of the Spanish language. Emphasis on pronunciation, intonation, and diction. Aim: to establish correct habits and increase fluency. One period and laboratory. Either semester may be taken independently. Prerequisite, 101, or the equivalent. (Not offered in 1963-64.) *Miss De Puy*

104. REPRESENTATIVE MODERN AUTHORS (6 hrs.)

Analysis of selected literary works of the 19th and 20th centuries: prose, poetry, and drama. Constant practice in the written and spoken language. Prerequisite, three admission units in Spanish, or by permission. Two periods and laboratory. *The Staff*

201 (1). ORAL AND WRITTEN COMMUNICATION (3 hrs.)

Intensive practice in conversation and writing. Aim: to increase fluency and accuracy in the use of modern idiomatic Spanish. Two periods. Prerequisite, 102, 104, or four admission units in Spanish. *Miss Breton*

202 (2).* INTRODUCTION TO HISPANO-AMERICAN CIVILIZATION (3 hrs.)

An historical consideration of the culture of one or two Hispano-American countries with emphasis on their literature and other arts. Prerequisite, same as for 201. *Miss De Puy*

* Offered in alternate years.

204. A HALF CENTURY OF MODERN SPANISH LITERATURE (6 hrs.)

From "la Generación del '98" to the present. Special study of the works of Unamuno, Valle Inclán, Azorín, Antonio Machado, Juan Ramón Jiménez, Ortega y Gasset, García Lorca. Prerequisite, same as for 201. By permission either semester may be counted as a semester course.

Miss De Puy (1), Miss Bretón (2)

206. MAIN CURRENTS OF SPANISH LITERATURE (6 hrs.)

The study of outstanding works and themes which express the Spanish conception of man and the world. Prose and poetry chosen from significant periods of Spanish literature. Prerequisite, 104 or, by permission, four admission units or 102. *Mrs. Ruiz-de-Conde*

300 (1). ADVANCED ORAL COMMUNICATION (1 hr.)

Practice in conversation, oral reports, discussion based on study of newspapers, periodicals, and other contemporary materials. Prerequisite, six hours of grade II. (Not offered in 1963-64.) *Mrs. Ruiz-de-Conde*

301 (2).° DRAMA OF THE SEVENTEENTH CENTURY (3 hrs.)

The characteristics of the Spanish drama of the Golden Age. Analysis of ideals of this period as revealed in the drama. Representative masterpieces of the great dramatists: Lope de Vega, Castro, Alarcón, Tirso de Molina, Calderón. Open to juniors and seniors who have taken six hours of grade II, three of which should be in literature. *Miss Bretón*

302 (1).° CERVANTES (3 hrs.)

Study of Cervantes and his work, representing the culmination of the novel in Spain and the opening of a new era in the history of the European novel. Reading of *Novelas Ejemplares;* analysis and discussion of *Don Quijote.* Prerequisite, same as for 301. (Not offered in 1963-64.) *Mrs. Ruiz-de-Conde*

303 (2).° POLARITIES IN SPANISH THOUGHT (3 hrs.)

An opposition of two important figures. For 1963-64: Unamuno and Ortega. Prerequisite, same as for 301. *Miss De Puy*

304 (1).° SEMINAR. SPANISH POETRY (3 hrs.)

Topic for 1963-64: Baroque poetry. Prerequisite, both semesters of 204 or 206, or by permission. *Mrs. Ruiz-de-Conde*

306 (2).° MODERN HISPANO-AMERICAN LITERATURE (3 hrs.)

Reading and discussion of representative works in modern literature; study of the main literary currents; analysis of present-day trends in prose and poetry. Prerequisite, same as for 301. History 214 is strongly recommended as background for this course. (Not offered in 1963-64.) *Miss De Puy*

309 (2).° SEMINAR. SPANISH CIVILIZATION (3 hrs.)

The development of political, social, and artistic life in Spain. Parallel readings and papers. Prerequisite, same as for 301. (Not offered in 1963-64.)

Miss Bretón

° Offered in alternate years.

350. RESEARCH OR INDEPENDENT STUDY (2 to 6 hrs.)

Open, by permission, to seniors who have taken six hours of grade III in the department.

DIRECTIONS FOR ELECTION

To fulfill the literature requirement in Group I, students may elect courses 104, 204, 206, and grade III courses (except 309).

Course 101 counts for the degree but does not count toward a major.

Students who begin with 101 in college and who may wish to major in Spanish should consult the chairman of the department at the end of their freshman year.

The major should ordinarily include 201, 206, 301, 302, six additional hours of grade III work, and History 214 or Spanish 309.

Students interested in Latin American studies are invited to confer with the chairman to plan a major in Spanish with emphasis on Latin America.

SPEECH

Assistant Professor: VIRGINIA ROGERS MILLER, M.A. (Chairman)

Lecturer: PAUL ROGERS BARSTOW, M.F.A. (Director of the Theatre)

SPEECH CONFERENCE (No credit)
Mrs. Miller

102 (1). FUNDAMENTALS OF SPEECH (3 hrs.)

Introduction to the field of speech as an art of communication. Emphasis on the phonetic and psychological bases of speech. Practice in oral interpretation of literature and introduction to speech making. Open to all undergraduates.
Mrs. Miller

103 (2).* SPEAKING AND DISCUSSION (3 hrs.)

A study of the forms used in speaking: description, narration, explanation, persuasion. Practice in organizing ideas for oral discussion. Open to all undergraduates. *Mrs. Miller*

203 (2).* ORAL INTERPRETATION OF LITERATURE (3 hrs.)

Analysis of and practice in oral interpretation of various forms of literature through the study of selected material from prose, poetry and drama. Prerequisite, open to freshmen and sophomores who have taken 102 or 103, or by permission. No prerequisite for juniors and seniors. (Not offered in 1963-64.)
Mrs. Miller

205 (1).* SHAKESPEARE IN THE THEATRE (3 hrs.)

Study of production of Shakespeare's plays in the theatre; particular attention to Elizabethan stagecraft and to contemporary production styles; emphasis on acting and directing. Reports, and scenes performed for class criticism. Prerequisite, same as for 203, or English 215, or by permission. *Mr. Barstow*

208 (1).* MODERN THEATRE (3 hrs.)

Study of developments in dramatic writing and theatrical performance

* Offered in alternate years.

from Ibsen to Ionesco; influence and interaction of representative playwrights, directors, designers and actors, from the Moscow Art Theatre to the Actors Studio. Prerequisite, same as for 203. (Not offered in 1963-64.) *Mr. Barstow*

209.° Principles of Theatre Art (6 hrs.)

Historical and critical study of the development and practice of the theatre arts. Dramatic literature in relation to the play in performance. Historical periods and styles; staging and design; primary emphasis on acting and directing. Reports, and scenes performed for class criticism. Prerequisite, same as for 203. *Mr. Barstow*

210.° History of the Theatre (Fifth Century B.C. to the Present) (6 hrs.)

Study of theatre structure, crafts and practices, with emphasis on acting and production styles, as these relate to major developments in dramatic literature. Prerequisite, same as for 203. (Not offered in 1963-64.) *Mr. Barstow*

Directions for Election

Although the College does not offer a major in Speech, a student may elect three or six hours of grade I work and a maximum of 12 hours of grade II work in the department.

At the opening of the college year freshmen and transfer students are asked to attend an individual conference at which an analysis of the student's speech, voice, and ability to communicate orally is made. For those who would benefit from instruction, the most helpful course or courses will be suggested; for those who do not wish to elect a course, individual or small group conferences will be recommended. If any student has a genuine disability, remedial work will be required.

A student interested in theatre studies should consult the Director of Theatre and the chairman of her major department to plan a field of concentration which emphasizes subjects which are important for an understanding of the theatre.

A student who wishes to undertake graduate study in the field of Speech should consult the chairman of the department to plan a program of courses in Speech and related subjects in other departments which will prepare her for graduate work.

ZOOLOGY AND PHYSIOLOGY

Professors: Eva Elizabeth Jones, ph.d.; Louise Palmer Wilson, ph.d. (Chairman); Virginia Mayo Fiske,[1] ph.d.

Assistant Professors: Alice Louise Bull, ph.d.; Jocelyn Mary Taylor,[1] ph.d.; Grace June Marshall, ph.d.; Dorothea Jane Widmayer, ph.d.

Instructors: Clarence Robert Shoop, ph.d.; Lynn Moorhead Riddiford, ph.d.; Mary Day Albert, ph.d.; Dorothy Jane Crouch, ph.d.

Assistants: Ellen Mahn Hall, b.a.; Anita Rothschild Bender, b.a.

Graduate Assistants: Geraldine Lynch, b.a.; Linda Frances Davis, b.a.

Custodian: Frances Knibbs Folsom

Secretary: Jacqueline Marie Butler

° Offered in alternate years.

[1] Absent on leave.

104 (1). BIOLOGY (3 hrs.)

Study of life processes, primarily at the cellular level, through experimentation and analysis; consideration of mechanisms of evolution and other unifying concepts of biology. Same as Botany 104 (1). Five periods of lecture, laboratory, and discussion. It is recommended that this course be followed by Zoology 105 (2) or Botany 105 (2), or by permission, a grade II course. *The Staff*

105 (2). BASIC ZOOLOGY (3 hrs.)

Development of an understanding of animal life through experimentation and analysis. Open to students who have taken Botany 101, Biology 104, or by permission. Five periods of lecture, laboratory, and discussion. *The Staff*

202 (1) (2). BASIC VERTEBRATE ANATOMY (3 hrs.)

The fundamental morphology of vertebrates, illustrated by some laboratory studies of the dogfish and a thorough dissection of the cat. Open to sophomores who have taken any grade I course in Botany or Zoology and to juniors and seniors without prerequisite. Five periods of lecture, discussion and laboratory. *Miss Marshall, Mrs. Albert*

203. COMPARATIVE VERTEBRATE ANATOMY (6 hrs.)

The comparative morphology of vertebrates, with emphasis on evolutionary changes leading from the structures of primitive fishes to those of the human body. Thorough dissection of dogfish, necturus, and cat included in laboratory work. Prerequisite, same as for 202. Five periods of lecture, discussion and laboratory. Strongly recommended for pre-medical students. *Mrs. Albert*

206 (1). ECOLOGY (3 hrs.)

Studies of plants and animals in the field, laboratories, and greenhouses, emphasizing the bases for the derivation of selected principles of ecology. Prerequisites, Botany 101 or 105; or Interdepartmental 103; or Zoology 101 or 105. Open to juniors and seniors without prerequisite. Five periods. *Mr. Shoop*

301 (2). ADVANCED ANIMAL ECOLOGY (3 hrs.)

Selected topics dealing with such subjects as zoogeography, factors affecting natural populations, social behavior, navigation and migration of animals, conservation of wildlife. Special consideration of social insects, amphibians, birds, and mammals. Prerequisite, 206 or by permission. Five periods of lecture, discussion and work in the field or laboratory. (Not offered in 1963-64.)

303 (1) (2). HISTOLOGY AND HISTOLOGICAL TECHNIQUE (3 hrs.)

A study of the microscopic structure of tissues and organs. Emphasis on the relation of structure and function. Some training in preparation of tissues for microscopic study. Open to juniors and seniors who have taken or are taking 202, 203, 206 or 308. Five periods of lecture, discussion and laboratory. *Miss Jones*

304 (1) (2). EMBRYOLOGY (3 hrs.)

The development of an individual from its origin as a fertilized egg through the formation of the principal organs and systems. Laboratory work chiefly on the chick and the pig. Open to juniors and seniors who have taken or are

taking 202, 203, 206, or 308, and to sophomores who have taken 202 or 206. Five periods of lecture, discussion and laboratory. *Miss Jones*

305 (2). Seminar. Development of Modern Zoology (3 hrs.)

A study of the evolution of modern zoology from its early beginnings in representative periods of the past. Problems in several present-day fields of investigation used to illustrate certain trends in modern biological research. Open to juniors and seniors who have taken 12 hours in the department, and to others by permission. *Miss Widmayer*

306 (1). Genetics (3 hrs.)

The principles of heredity, based primarily on the cytological and genetical evidence found in animals and microorganisms; the application of these principles to human inheritance. Class work supplemented by laboratory work designed to acquaint the student with some methods of genetic analysis. Prerequisite, same as for 305. Four periods. *Miss Widmayer, Miss Crouch*

308. Physiology (6 hrs.)

A study of general physiological processes. Simple physical and chemical studies of living matter. Observations of more complex physiological processes: nutrition, circulation, respiration, excretion, nerve-muscle response, reproduction, endocrine activities. Prerequisite, one course in the department and one course in college chemistry. Five periods of lecture, discussion and laboratory. *Mrs. Wilson, Miss Riddiford*

310 (2). Advanced Histology (3 hrs.)

Study of organs not included in 303. Individual problems and reports on histological research. Prerequisite, 303. Five periods of lecture, discussion and laboratory. *Miss Marshall*

312 (2).° Metabolism and Nutrition (3 hrs.)

A study of the foods necessary for the normal functioning of the body and the physiological processes by means of which they are utilized for growth, repair, and release of energy. Normal and faulty nutrition compared by feeding experiments with animals. Prerequisite, or corequisite, 308. Chemistry 205 is recommended, but not required. Five periods of lecture, discussion and laboratory. (Not offered in 1963-64.) *Mrs. Wilson*

316 (2).° Physiology of the Endocrine Glands (3 hrs.)

The chemical control of the animal organism through the secretions of the endocrine glands. Individual problems. Prerequisite or corequisite, 308. Five periods of lecture, discussion and laboratory. *Mrs. Wilson*

320 (1). Seminar (3 hrs.)

Intensive study of one problem or a series of related problems. Critical study of experimental methods and analysis of results. Emphasis on source material. Subject for 1963-64: Causal Analysis of Development. Consideration of experimental approaches to the problems of growth and differentiation. Topics to be included are fertilization, inductive systems, genetic and hormonal control of embryogenesis, regeneration, and abnormal growth. Open by permission to juniors and seniors majoring in Zoology. *Miss Bull*

° Offered in alternate years.

350. RESEARCH OR INDEPENDENT STUDY **(3 or 6 hrs.)**

Open by permission to juniors and seniors.

DIRECTIONS FOR ELECTION

A knowledge of chemistry is desirable for all students majoring in the department and is required of all students taking work in physiology.

The department will admit properly qualified freshmen and sophomores to Zoology 202, 203, or 206 without examination but by special permission after consultation with the chairman of the department.

Permission for 350 work is given only after plans for a 24-hour major have been completed and approved.

SCHOLARSHIP

At the Marine Biological Laboratory at Woods Hole (or at a biological field station approved by the student's major department), a scholarship is open to students who are returning to Wellesley. The Chairman of the Department should be consulted before February 15.

PLACEMENT AND EXEMPTION EXAMINATIONS

The department will offer an examination for exemption from zoology as a distribution requirement to any student who offers for admission a year course, taken in either the junior or senior year and carried at a grade of B or better, and who presents an acceptable laboratory notebook when applying for the examination.

ADMISSION

ADMISSION OF FRESHMEN

The Board of Admission consisting of eight members of the Academic Council selects the incoming freshman class. They regard as essential for admission intellectual ability, interest in learning, good character and health. From the candidates who meet these essentials they try to select a class which will have a complementing variety of individual interests and which represents many different public and independent schools throughout the United States and abroad. The Board of Admission reserves the right to determine in all cases which candidates shall be admitted.

As evidence of a candidate's ability the Board considers her secondary school record, the recommendation of her school, information about her independent reading, her extracurricular and special interests, intelligence tests which she may have taken, and her record on the required College Board Entrance Examinations. In addition, each candidate must have an interview, the arrangements for which are her responsibility. This may be held at the College or in the home or school region of the candidate, except that the few candidates who are considered for entrance after only three years of high school must have their interview at the College. Appointments should be arranged in advance. Upon request the Director of Admission will supply the name and address of the alumna interviewer in a candidate's region.

Secondary School Preparation

In general, candidates are expected to complete a full four-year secondary school course. A sound program of studies in preparation for entrance to Wellesley College includes four years of English grammar, composition, and literature; Latin or Greek and a modern foreign language, one carried through the most advanced course offered by a school; one or more of the following fields of history: American, Ancient, Medieval, Modern European; three years of college preparatory mathematics; one or more laboratory sciences: biology, chemistry, physics. Electives may be offered in additional courses in the subjects listed above or in other academic fields. Admission credit is not given for courses in typewriting, although this skill is helpful to the college student and the Board of Admission urges candidates to learn to typewrite in secondary school or during a summer vacation.

The Director of Admission will comment on the suitability of the program of any candidate who wishes to submit it in advance of formal application for admission. She welcomes correspondence with students, their parents, and school advisers on any matter concerning admission to

the College. Information from schools about new courses and curricular plans is also welcomed. Because secondary school curricula vary widely, some candidates may be unable to study some of the subjects recommended for admission. Other candidates may be ready for college work before completion of four years of secondary school. The Board of Admission is glad to consider the applications of candidates whose school work differs in extent or in program from the normal preparation for college, provided that there is evidence of continuity and sound work in the study of basic subjects.

Early Decision Plan

This optional plan of admission is designed to give well qualified applicants, who by the end of the junior year in secondary school have made their choice of college, an opportunity to have a decision on their applications in December rather than in April of the senior year.

Students are eligible for Early Decision who apply to Wellesley College and to no other college, who agree to file no other application until they receive a decision, and who agree to make a non-refundable deposit of $200 by February 1 if they are accepted and plan to enter. This deposit will be applied in equal portions to the first and second semester fees of the first year. All candidates for admission under this optional plan must complete a form entitled "Request for Early Decision" before *October 1* of the senior year.

Application for Admission

Admission forms may be secured from the Director of Admission. A fee of $15 must accompany the formal application. This fee is not refunded if a candidate withdraws her application or is not admitted. Candidates must apply not later than *January 1* of the year in which they plan to enter college. A student who wishes to apply under the Early Decision Plan should make application before *October 1* of her senior year in high school. Early Decision Plan candidates will receive notices concerning admission in December; candidates applying under the regular admission plan will be notified in late April.

College Board Entrance Examinations

Examinations Required

All candidates for admission to Wellesley must take the following examinations offered by the College Entrance Examination Board: Scholastic Aptitude Test, including both the verbal and mathematical sections, and three Achievement Tests, including the English Composition Test and two other tests chosen from two of the following fields: (1) foreign

languages; (2) social studies; (3) either science *or* mathematics. The preferred program for the Achievement Tests includes, in addition to English Composition, one in foreign language, and one selected from social studies, science, or mathematics.

All College Board Tests are designed to be taken without special preparation.

Timing of the Examinations

Candidates for admission under the regular plan (decisions made in April) must schedule their examinations as follows:

The Aptitude Test should be taken in December or January of the senior year. If these candidates wish to take the Scholastic Aptitude Test for guidance purposes during the junior year, they are encouraged to do so. In this case the College Entrance Examination Board should be asked to forward the results of the preliminary test to the College. The Director of Admission can then upon request give additional assistance to candidates who seek advice about their candidacy.

The Achievement Tests may be divided between May of the junior year and December or January of the senior year. (Tests taken in March of the senior year are not suitable since the results will be received too late to be considered for an April decision.)

Junior Year Tests: Students completing a one year subject (such as chemistry or American history) in the junior year are advised to take one or more Achievement Tests in May. Tests in the junior year are also suitable in mathematics or a foreign language.

Senior Year Tests: Achievement Tests in the senior year should be taken in either December or January in continuing subjects only. These dates are inappropriate for examinations in one year subjects.

Candidates for admission under the Early Decision Plan (decisions made in December) must schedule their examinations as follows:

These candidates must take both the Aptitude Test and three Achievement Tests in the spring of the junior year. The Aptitude Test may be taken in March or May. The Achievement Tests should be taken in May. July tests are unsuitable.

APPLICATION FOR THE COLLEGE ENTRANCE EXAMINATION BOARD TESTS

Each candidate for admission is responsible for making proper application to take the College Board tests and for having the results of the tests sent to the College.

Candidates living in states from Montana to New Mexico and west

should send inquiries to the College Entrance Examination Board, P.O. Box 1025, Berkeley 1, California. Candidates from all other states and candidates applying from foreign countries should send inquiries to the College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey. The College Board sends a copy of its Bulletin of Information to every candidate requesting an application blank.

Applications and fees should reach the College Board offices approximately seven to eight weeks before the dates of the tests specified below:

Dates of Tests
December 7, 1963
January 11, 1964
March 7, 1964
May 2, 1964

Financial Aid

Candidates who will require financial assistance in order to attend Wellesley should read carefully the information on pages 119-122.

Advanced Placement and Credit

A student who has taken one or more advanced courses in secondary school is eligible for college credit in each course for which she receives a score of 4 or 5 on the Advanced Placement Test of the College Entrance Examination Board. Three semester hours of credit may be given in Intermediate Latin; six semester hours of credit in all other courses.

Credit is given automatically for one course provided the student accepts advanced placement if she elects to continue study of the subject in college. Further credits for each other course in which the student received a grade of 4 or 5 will be awarded after she has completed a course in the subject at Wellesley College at an appropriate level and has earned a grade of C or better. There is no limit to the number of semester hours which the student may earn through advanced placement courses, though not more than six hours will be credited in any one subject.

A student who presents an English score of 4 or 5 may be exempted from English 100.

Any student who receives college credit for two or three advanced courses taken in secondary school and who wishes to plan to complete the requirements for the B.A. degree in less than four years should consult the Dean of Freshmen during the first semester of her freshman year.

Students entering under the Advanced Placement Program who are not eligible to receive college credit and other students who have not participated in this program in secondary school but are unusually well prepared for college work in certain subjects may be admitted to advanced

courses in the freshman year if the department concerned finds their preparation acceptable. Students interested in being considered for advanced placement should write to the Dean of Freshmen during the summer for advice about their electives and for information about examinations which are required in some fields to achieve advanced placement.

Examinations for exemption from certain requirements for the degree are described on page 29.

ADMISSION OF TRANSFER STUDENTS

Wellesley accepts a limited number of students who enter as sophomores or juniors. Students wishing to transfer who have maintained excellent records elsewhere and are strongly recommended by their dean and instructors may file applications.

Requests for permission to apply should be made to the Director of Admission not later than April 1 of the year in which admission is sought. The selection of transfer students is made in June and in August. Each request for permission to apply should be accompanied by a statement of reasons for wishing to transfer to Wellesley, the student's field of interest or probable major, a transcript of school and college records, and the names of a dean and two instructors who know the applicant well. Also, the applicant should arrange directly with the College Entrance Examination Board to send to the Director of Admission her scores on all College Board tests which she has taken. If she has never taken the Scholastic Aptitude Test of the College Board, it is her responsibility to arrange to take it and to have the results sent to the Director of Admission. (See pages 110-112.)

No application will be supplied until all of the above material has been reviewed. Admission forms will be sent to those candidates who can be encouraged to apply. They should be returned promptly together with a fee of fifteen dollars. The fee is not refunded if a candidate withdraws her application or is not admitted. The Board of Admission reserves the right in all cases to determine which candidates shall be admitted.

Credit for courses completed at another college is tentatively granted early in the first year of residence at Wellesley, but determination of credit, which depends upon the quality of the student's work at Wellesley, is not made until the end of the year.

READMISSION

A student who has withdrawn from the College is not automatically readmitted. She should make application for readmission to the Secretary of the Committee on Student Records. A non-refundable fee of fifteen dollars must accompany the application.

ADMISSION OF FOREIGN STUDENTS

Students living in foreign countries who wish to enter Wellesley College are asked to make application well before January 1 of the year in which they wish to enter college. The application should be accompanied by a letter from the student giving her reasons for wishing to study at Wellesley College and a detailed statement of her previous educational experience or a transcript of her record. Inquiries concerning admission and scholarships should be sent to the Board of Admission.

ADMISSION OF GRADUATE STUDENTS

Wellesley accepts a limited number of candidates for the degree of Master of Arts. A summary of requirements for the Master's degree appears on page 33. Interested students should write to the Chairman of the Committee on Graduate Instruction.

GENERAL INFORMATION AND REGULATIONS

REGISTRATION

Each student must register in her residence hall at the beginning of each college year. The time of registration is stated in the calendar on page 6.

FRESHMAN ORIENTATION

Entering students come into residence two days before most upperclassmen. During this period they meet their class dean, other officers of the College, and some upperclassmen who answer their questions and help them to become acquainted with the activities and traditions of the College. They visit the library, take physical examinations and appropriate placement tests, and have opportunity to consult their deans should changes in their programs of study seem advisable. Special events of various types are scheduled for entering students during their first week at Wellesley.

ADVISING OF STUDENTS

Class deans under the chairmanship of the Dean of Students are the interpreters to students of the academic and other policies of the College and are ready to discuss informally with individual members of their classes any academic or personal problem which the student may have. The deans are officers of the College and members of the faculty who are relieved of some of their teaching duties. They keep in touch with the faculty, heads of house, doctors, and student leaders in order to help establish sound policies for the life of the community and to be of maximum service to individual students. Students are invited to turn to the deans both for immediate help and for information about specialized services, because the deans are the persons who know best all of the resources which the College has to assist the student in her academic, personal, religious, health, and employment interests. Each class has one dean for the first two years and another dean for the last two years.

ACADEMIC STANDARDS

Each student is given full responsibility for her attendance at classes and for the timely preparation of her work. In case of illness or other difficulty she should consult her dean for assistance in making special arrangements for her studies.

The student is expected to prepare all her work with integrity and to abide scrupulously by the regulations of the faculty concerning academic

work. The College attaches major importance to this. A student who finds herself in doubt as to a proper method or course of action should consult her instructor or dean immediately.

At the end of each semester the academic record of each student, including grades, evidence of interest in study, and potential for further achievement, is reviewed. A student may be excluded from the College if she has given little evidence of interest or growth in her work or if she has fallen below diploma grade standing. If the record, although poor, shows promise, the student is warned and efforts are made to help her improve it. Because of the selective policies of admission, a student who has made consistent effort to meet the requirements rarely has to be excluded. Ordinarily no student may enter the senior year who is below diploma grade standing or has failed to complete the foreign language requirement.

RESIDENTIAL LIFE

Residence Halls

Wellesley maintains thirteen large residence halls, each of which has its own living rooms and dining room. Students in proportionate numbers from all four classes live in each hall. A Resident Head of House who is interested in the welfare of each student works with the students in her hall to create an environment which invites study and intellectual discussion as well as relaxation and entertainment of friends.

Rooms are assigned to entering students by the Director of Residence with a view to maintaining among the freshmen in each hall representative diversity in backgrounds and interests. Regulations for moving from one hall to another at the end of each year vary from time to time but are always based on general policies equally applicable to all students. Only juniors are assured in advance that if they wish they may continue in the same residence hall for the following year.

Rooms are equipped with essential furniture. Students are expected to furnish blankets and couch covers, and to furnish bed linen and towels or rent them from a supply company designated by the College. A list of permissible additions is sent to each entering student. It should be noted that the College accepts no responsibility for the safety of personal possessions of the student. She may leave her possessions at her own risk in her room or in storage areas designated by the College. Valuable items should be left at home or should be insured.

The College reserves the right to inspect any room at any time and to dispose of articles remaining unclaimed after due notice or after a student has left college, either by withdrawal or graduation.

Residence halls are closed during Christmas and spring vacations. One

hall is kept open on a per diem basis if enough students wish to remain. A Resident Head is in charge of the vacation house.

RULES OF RESIDENCE

Residence in college halls is required of all unmarried undergraduate students except those who live with their parents near the College. Each student must keep her room clean and give two to three hours a week to light housework, which is scheduled by student Heads of Work. Once assigned a room, the student may expect continuing opportunity to reside at the College, provided her academic progress is considered satisfactory and provided she upholds high standards of civic and personal morality as well as the specific rules of residence which are stated in the College Government Handbook.

Married students are not allowed in the freshman or sophomore classes.

A junior or senior who has lived in residence at the College for two years and who then marries may apply to the Dean of Students for permission to continue her studies at Wellesley as a non-resident student. Permission is usually given to a student in good academic and social standing and whose new home is within thirty miles of the College. Ordinarily a married junior or senior may not live at the College, because the College believes that women should postpone marriage until they are ready and able to establish their own homes. In an exceptional case and if permission has been requested and received from the Dean of Students at least one month before the marriage, a married junior or senior may live at the College. Except in special circumstances for which Government loan funds may be available, financial aid is not given to married students.

HEALTH PROVISIONS

The College emphasizes preventive medicine. The services of the college physicians and psychiatrists are available to students without charge. Campus employees are examined by a college physician. Food is carefully selected by the college dietitian and prepared under her direction. Cleanliness in the residence halls is maintained by the cooperative efforts of College Government and administrative officers.

When a student is admitted to the infirmary as a bed patient, a routine notice is sent to her parents. Each resident student is allowed six free days in the infirmary each year when prescribed by a college physician, provided that no special service is required. Only three of the free days may be taken at any one time; thereafter an infirmary charge of nine dollars a day is made. Charges for special services are determined in the usual way, according to the type and amount of service rendered.

To supplement the free service, the College strongly recommends pur-

chase of a group student health and accident insurance policy for which it has made arrangements. The insurance gives protection to the student over a twelve-month period whether or not in residence at the College. Information concerning it is sent to parents in the fall.

The college physicians give each entering student a physical examination and study carefully the health information which the College requests of parents and family physicians in connection with admission. This information helps the college physicians to decide whether the student should be placed in remedial or restricted physical activity in the department of Physical Education and may be useful should a student become ill. It also makes possible cooperation with home physicians in continuing necessary treatment. For these reasons the requested information should be complete and accurate; failure to supply full information initially may result later in exclusion from college. Many types of illness and disability are not insurmountable handicaps at Wellesley, but the College cannot supply special diets or encourage the entrance of students who find walking very difficult.

Cooperation with the college physician is a requirement of residence. A student in residence must notify a college physician before consulting a physician outside of the College or before leaving the campus for reasons of health. If she needs medical attention when away from the campus, she should inform her class dean immediately upon her return and take to the infirmary a statement signed by the attending physician.

The proximity of the College to Boston permits early consultation between college physicians and specialists whenever advisable. In case of serious illness parents are notified by telegram or telephone, but the College reserves the right to make decisions concerning operations and other health matters if parents cannot be reached at a time when decision seems imperative.

WITHDRAWAL AND EXCLUSION

A student who plans to withdraw must inform her class dean. The Recorder will then provide a withdrawal blank for the student's parents or guardian to sign. The official date of withdrawal is the date on which the signed blank is returned to the Recorder.

The College reserves the right to require the withdrawal at any time of a student whose academic work falls below its standards or who in the opinion of the college authorities should not remain at Wellesley. In the latter case no specific reason need be assigned.

EMPLOYMENT OPPORTUNITIES

The Placement Office assists students and alumnae who are interested in employment opportunities. It helps students to obtain summer positions

and part-time work in the winter and helps seniors and alumnae to locate positions upon graduation and later in their careers.

During the academic year caring for children provides the largest number of job opportunities. Within the College three exchanges dealing with furniture, books, and food afford regular work for a number of students. Agencies for newspapers, magazines, laundry, and dry cleaning yield substantial returns to some students. Clerical work and other positions are also available, but students are cautioned against depending upon employment during the academic year for any considerable income. Summer opportunities are varied and provide more remuneration.

Students and alumnae may consult the staff and use the vocational library of the Placement Office at any time for information and suggestions concerning present work opportunities and future career possibilities. Lectures and discussions on occupations are arranged for students, and information is made available concerning training courses, apprenticeships, and graduate assistantships. Upon payment of a small fee a senior may register permanently with the Placement Office. The Office arranges interviews for registered students with employers who come to the College and informs senior and alumnae members of various openings; it collects credentials and thereafter keeps up-to-date the papers of each interested registrant to be sent to prospective employers and others upon request.

FINANCIAL AID

The endowment funds of the College for undergraduate scholarships amount to approximately $6,700,000. They include more than two hundred and fifty separately endowed funds, each of which bears the name of the donor or of a person whom he wished to honor, and also a large, general fund which supports many awards including the Seven College Scholarships and Town Scholarships, described below. Total annual awards presently amount to more than $500,000. Of this sum about $415,000 comes from income earned by the endowed scholarship funds of the College, appropriations from current income, and gifts made to the College by alumnae clubs, corporations, and individuals. About $85,000 comes from endowed funds of the Wellesley Students' Aid Society and gifts to it from alumnae clubs and individuals. These resources make possible awards in the amount of their need to approximately twenty percent of the student body.

The Committee on Scholarships acts with power in the selection of holders of awards and in determination of the amount of each award. Financial aid is given only to students who require assistance in order to attend the College and usually consists of a gift supplemented by a loan and a work guarantee.

Preference among the accepted candidates for admission who require assistance is given to the students with the best admission credentials.

The geographical area from which the applicant comes is also considered. For resident students awards are reviewed annually and are renewed, provided they are needed, so long as the student maintains a good academic and civic record. Ordinarily students who receive financial aid work during the summer in order to contribute to their expenses of the following year. Earnings vary with the type of employment, but in general the Committee on Scholarships estimates that a student can earn between $250 and $300 during the summer.

Application for Financial Aid

In making awards to entering students, the Committee on Scholarships considers only those applicants who were registered candidates for admission by January 1 of their senior year in school and who completed in full and presented at the times and places noted below the following two scholarship forms.

One form is the "Wellesley College Application for Financial Aid," a copy of which will be sent to any registered applicant who, no sooner than the fall of her last year in secondary school, requests it from the Secretary to the Committee on Scholarships. To receive consideration, the form must be filled out *completely* and must be returned to the Secretary by October 15 of the senior year in secondary school by candidates requesting Early Decision, and by January 1 of the year of entrance by all other candidates.

The other form, which asks for a financial statement from parents, is issued by the College Scholarship Service of the College Entrance Examination Board. Anyone may secure a copy by writing to the College Scholarship Service, Box 176, Princeton, New Jersey, unless the parents live in or west of Montana, Wyoming, Colorado, or New Mexico, in which case they should write to Box 1025, Berkeley 1, California. Copies of this form are also available in secondary schools. For the convenience of students who are registered for admission at Wellesley, the Secretary to the Committee on Scholarships will enclose a copy of the CSS form with the Wellesley College Application for Financial Aid if so requested by a registered applicant. The College Scholarship Service form should be filled out completely and sent before October 15 by candidates for Early Decision, and before January 1 by all other applicants. This form should be sent, not to Wellesley, but to the College Scholarship Service at the address given above. The Service will then forward a copy for confidential use only to the college or colleges which the parents of the applicant designate.

Candidates for admission who have sufficient money for the first year but who expect to need assistance for the later years should inform the Secretary to the Committee on Scholarships by February 1 of the year

of entrance. The Committee on Scholarships endeavors to allocate funds so that students to whom scholarships have been awarded may continue to have financial help as needed and merited throughout their course. The Committee also reserves some limited funds for qualified students who may be faced with financial emergencies during their later college years but did not have help in the first year.

Applications from students in college should be filed with the Secretary to the Committee on Scholarships on forms obtained from her office. Instructions concerning applications are posted shortly before the Christmas vacation.

It should be noted that the candidate does not make direct application for any of the named scholarships which are within the award of the College (except in the case of Seven College Scholarships). She applies for assistance in general terms.

Types of Financial Aid

Gift Scholarships

Most gift scholarships are supported by named funds or are awarded without special designation from the general fund for scholarships. In addition, there are Seven College Scholarships and Town Scholarships.

Seven College Scholarships. Twenty-one scholarships are awarded annually by the Seven College Conference, an informal association of Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar, and Wellesley. Each college offers one scholarship in each of the following areas: Central States (Colorado, Kansas, Missouri, Nebraska); Southwest (Arizona, Arkansas, Louisiana, New Mexico, Oklahoma, Texas); West (California, Idaho, Oregon, Washington). As with all Wellesley scholarships, the stipends vary according to need and may amount to the full expenses for tuition and residence.

Further information and application blanks for the Seven College Scholarships may be obtained from the Director of Admission. Applications must be filed by January 15 of the year of entrance.

Town Scholarships. The College offers ten tuition scholarships to students who meet the standards for admission and are residents of the township of Wellesley. These tuition scholarships are renewable so long as the student remains of diploma grade standing at the College and continues to reside in Wellesley. Selection of Town Scholars is made by the Selectmen of the Town of Wellesley.

Work Guarantees

Work guarantees assure holders that they will earn $90 to $150 a year toward their fee by working three to five hours a week in the library,

academic departments, offices, etc. Students are selected to hold work guarantees on the basis of proficiency in the work involved, personal qualities, and financial need. In general, these guarantees constitute a part of a larger award.

Loans and Special Aids

The Wellesley Students' Aid Society was established in the early days of the College by Mrs. Henry Fowle Durant, the wife of the founder, at a time when the College had no scholarship funds. Now the Society works in close cooperation with the College Committee on Scholarships to supplement college awards with gifts and loans. Students' Aid gift awards are made for one year at a time to students who have applied to the Committee on Scholarships for financial aid; they are renewable on the same bases as college awards.

In addition to funds for scholarship gifts, the Students' Aid Society administers a loan program in cooperation with the College Committee on Scholarships. Loans are made from funds held by the Society supplemented by college funds. Not less than 10%, and not more than 20% of each financial recipient's total need is normally met with loan, which is convertible into gift after graduation for students who enter teaching or graduate study followed by teaching.

The Students' Aid Society also renders personal assistance to students through loans of books and other items and through gifts of clothes and loans of small amounts of money for incidental expenses and emergencies.

Wellesley College participates in the National Defense Student Loan Program. Admitted students whose financial need cannot be met by college scholarship may obtain information concerning this program by writing to the Secretary of the Committee on Scholarships.

FEES AND EXPENSES

In 1963-64 annual inclusive fee for tuition, board and room is $2,500. It will be increased to $2,800 for the following year, 1964-65. The fee represents approximately three fourths of the cost to the College for each resident student; the difference is made up from endowed funds and gifts. In addition, each entering student deposits $50, which is refunded at the time of graduation, after deducting any special charges which were not previously paid.

Each resident undergraduate may elect to pay all fees in accordance with the time schedule of either the Standard or the Twelve-Payment Plan. For 1963-64 these are:

Standard Plan

First Payments made only by students entering in 1963:	
May 8—General Deposit (refundable)	$ 50
May 8—Reservation Payment (non-refundable) to reserve a place at Wellesley the following year.	$ 200*
Total	$ 250
First Payment made by returning students only:	
July 10—Reservation Payment (non-refundable)	$ 200
Second Payment made by all students:	
Sept. 10—First Semester Payment	$1,150
Third Payment made by all students:	
Feb. 1—Second Semester Payment	$1,150

Twelve-Payment Plan

Payments made only by students entering in 1963:	
May 8—General Deposit (refundable)	$ 50
May 8—Reservation Payment (non-refundable)	$ 200*
Total	$ 250
June 10 through April 10, a payment of $210 each month	
Total	$2,310
Total of all payments	$2,560
Payments made by returning students only:	
May 10 through April 10, a payment of $210 each month. (The July payment includes the non-refundable reservation deposit.)	
Total of all payments	$2,520

* Freshmen entering in 1963 under the Early Decision Plan pay the $200 Reservation Deposit on February 1 and the $50 General Deposit on May 8.

All checks should be payable to Wellesley College and sent to the Controller. The College necessarily makes commitments in advance for instruction and living arrangements, and the parent or guardian is responsible for the entire fee for a semester even if withdrawal or exclusion occurs. The only rebate in event of withdrawal or exclusion is $17 per week for each remaining full week of the semester. All fees which are due must be paid before the student may begin, or continue, class attendance, and all financial obligations to the College must be discharged before a diploma is awarded.

Undergraduates who wish information concerning non-resident fees should write to the Controller, after establishing non-resident status with the Class Dean. Graduate students should consult the bulletin on Graduate Study at Wellesley College.

SPECIAL FEES AND EXPENSES

A non-refundable application fee of $15 is required of all candidates for admission and readmission (see page 110). Ordinarily a fee of $150 is required for each three hours taken in excess of the normal academic program for the semester. No extra fee is required for an additional course, however, if it is taken to replace one which has been dropped at any time during an earlier semester for health reasons and with the approval of the class dean, or to replace one which has been dropped for any other reason before the middle of the semester with the approval of the class dean. Infirmary fees for care in excess of the free days allowed by the College are stated on page 117. Fees for instrumental and vocal lessons are stated on page 85. There are no other college fees. The student should plan, however, on an annual expenditure of $50 to $100 for books, supplies, and subscriptions, and at least $150 for incidentals and recreation.

THE BUILDINGS AND EQUIPMENT

All of the buildings described below are located on the campus, a four hundred acre tract of rolling meadow and woodland which borders on a natural lake one mile in length. The campus contains special plantings in the Hunnewell Arboretum and the Alexandra Botanic Gardens, experimental gardens for students of botany, the Hay Outdoor Theatre, and ample facilities for a wide range of land and water sports.

ACADEMIC AND COMMUNITY BUILDINGS

Billings Hall, erected in 1880 as a music college, was remodeled in 1962 to provide a center for student organizations. The addition of 1904 currently serves as a warehouse.

Simpson Infirmary was the gift of M. H. Simpson in memory of his wife, who had been a trustee of the College. It was erected in 1881 as a residence hall, later became the infirmary, and now provides living quarters for members of the staff. In 1942 a new wing containing a 29-bed hospital and a clinic was erected and connected with the old infirmary.

The Houghton Memorial Chapel was presented in 1899 by Miss Elizabeth G. Houghton and Clement S. Houghton as a memorial to their father, William S. Houghton, a trustee of the College. In it are stained glass windows commemorating the founder and several former members of the College, and a famous tablet by Daniel Chester French in memory of Alice Freeman Palmer, Wellesley's second president.

The Whitin Observatory, the gift of Mrs. John C. Whitin, a trustee of the College, was erected in 1900 and enlarged in 1962. It contains laboratories, darkrooms, and the library of the department of Astronomy. Its extensive research equipment includes six-inch and twelve-inch Clark visual refractors.

Mary Hemenway Hall, the gymnasium, was erected in 1909 when the Boston Normal School of Gymnastics affiliated with the College and Mrs. Mary Hemenway of Boston provided the funds for this building. It contains an indoor gymnasium, offices, and lecture rooms.

The Library Building, erected in 1910 and enlarged in 1916, was the gift of Andrew Carnegie. A new wing constructed in 1957, which doubles its size, and a complete remodeling of the original building, finished in 1958 and including a language laboratory shared by the modern foreign language departments, are the gifts of alumnae and friends. A major contribution was made by David M. Mahood and Mrs. Helen M. Petit as a memorial to Helen Ritchie Petit of the Class of 1928. The Library Build-

ing contains approximately 265,000 volumes which include a number of special collections, among them the English Poetry Collection created by George Herbert Palmer and added to by Katharine Lee Bates, Elizabeth Manwaring, and Sara Teasdale, the Browning Collection, the Plimpton Collection of Italian books and manuscripts, and the Elbert Collection on the Negro in slavery. Two other collections, the Laura Hibbard Loomis Collection of Medieval Literature and the collection on the Far East given by the Mayling Soong Foundation, while not housed separately, enrich the resources of the library. The Rare Book Collection contains manuscripts and a small collection of rare books and first editions which range in time from a copy of the Ratdolt Euclid printed in 1482 to the books issued by the contemporary Grabhorn Press. Another 75,000 volumes are located in the Art, Music, and Science departmental libraries.

THE ANNE L. PAGE MEMORIAL SCHOOL, for boys and girls of three, four, and five years of age, occupies two small buildings, the first of which was erected in 1913. It is equipped with one-way screens enabling students to observe the children effectively without themselves being seen.

FOUNDERS HALL, a classroom building for the humanities, social sciences, and mathematics, was erected in 1919. Dedicated as a memorial to Mr. and Mrs. Henry Fowle Durant, it was built from the Restoration Fund which trustees, faculty, alumnae and friends of the College secured after the College Hall fire.

ALUMNAE HALL, the gift of the alumnae, was built in 1923. It houses the largest auditorium on the campus, a ballroom, and "The Well," the campus snack bar.

SAGE HALL is named in honor of Mrs. Russell Sage, its principal donor. The unit for botany and bacteriology was erected in 1927 and that for zoology and physiology in 1931. In 1956 the building was remodeled and enlarged to provide facilities also for geography and geology. It contains the laboratories, lecture rooms, and offices of the four departments, a library, and a teaching museum and display areas for the departments of Botany and Bacteriology, Geology, and Zoology and Physiology. Equipment for the research of students and faculty includes greenhouses with a range of climates from tropic to desert, a vivarium, an aquarium, and extensive map collections.

HETTY H. R. GREEN HALL, erected in 1931, was in large part the gift of Mrs. Green's son and daughter, Colonel Edward H. R. Green and Mrs. Matthew A. Wilks. It contains the administrative offices, the faculty assembly hall, class and seminar rooms, and an interdepartmental statistical laboratory. The Galen L. Stone Tower, named for its donor, who was long a trustee of the College, houses a carillon which was the gift of Mrs. Charlotte Nichols Greene.

PENDLETON HALL, erected in 1935, was named at the request of the students in honor of Ellen Fitz Pendleton, president of the College

from 1911 to 1936. It contains the laboratories, lecture rooms, libraries, and offices of the departments of Chemistry, Physics, and Psychology. Extensive facilities and equipment provide opportunity for advanced work in various fields of chemistry, including chemical spectroscopy and instrumental analysis; in optics, electronics, and atomic physics; and in various types of experimental psychology.

The Recreation Building was opened in 1939. It contains game rooms, badminton and squash courts, lounges, and the George Howe Davenport Swimming Pool which bears the name of the trustee who gave generously toward its construction.

The Jewett Arts Center, completed in 1958, was the gift of the late Mr. George Frederick Jewett, his wife (now Mrs. David Gaiser), their son, George Frederick Jewett, Jr., and their daughter, Mrs. William H. Greer, Jr. Mrs. Gaiser, a trustee of Wellesley College, is an alumna, as is her daughter and as was Mr. Jewett's mother. The Center consists of the Mary Cooper Jewett Art Building and the Margaret Weyerhaeuser Jewett Music and Drama Building.

The Mary Cooper Jewett Art Building contains the museum, classrooms, study rooms and studios, offices and slide collections, of the Art Department and, through the use of a bequest from Mrs. William Hewson Baltzell, a trustee of the College from 1930 to 1938, the Art Library. The museum collection contains choice examples of classical and medieval art; sculptures by Sansovino, Lehmbruck, and Maillol; a famous early Corot and other paintings by such artists as Crespi, Magnasco, Strozzi, Terborch, Cezanne, and Picasso; and, on extended loan, works by Piero di Cosimo, Rubens, Rodin, and Copley.

The Margaret Weyerhaeuser Jewett Music and Drama Building contains the music library of books, scores, and recordings; listening rooms, practice studios, classrooms, and offices of the Music Department, and a variety of musical instruments including a baroque organ, a clavichord, and a harpsichord; also a rehearsal room and workshop for the College Theatre, and an auditorium seating 350 people for art and music lectures, concerts, and experimental theatre.

Wellesley College Club, completed in 1963, is a center for faculty, staff, trustees, alumnae officers, and committees serving the College, and has guest bedrooms for a few official guests and visiting alumnae.

RESIDENCE HALLS

The thirteen residence halls for undergraduate students compose three groups on the campus. Each group is approximately the same distance from the central academic buildings. In the northwest section are Munger Hall and Hazard Quadrangle, which is formed by four halls, Beebe, Cazenove, Pomeroy, and Shafer. Tower Court, Claflin, and Severance

Halls are together on the hill overlooking Lake Waban where the original College Hall once stood. The third group stretches east from Stone and Davis on the lake shore to Bates, Freeman, and McAfee, the newest halls.

MUNGER HALL, which houses about 125 students, was given by Miss Jessie D. Munger, of the Class of 1886, in honor of her mother, Gertrude C. Munger. Each of the halls in the HAZARD QUADRANGLE, which is named in honor of Wellesley's fifth president, accommodates about 120 students. BEEBE was made possible by a legacy from Captain John Allen Beebe, a Nantucket sea captain and the father of Alice B. Beebe, of the Class of 1896. CAZENOVE, the gift of Pauline Durant, who with her husband founded the College, bears the name of Mrs. Durant's mother; POMEROY, too, is named for its donor, Mrs. Martha D. Pomeroy, who bequeathed the funds to build it. SHAFER honors the memory of Wellesley's third president.

TOWER COURT, so named because of its tower in the central part separating the two wings and because of its courtyard overlooking the lake, houses approximately 235 students. It was the gift of Ellen Stebbins James. CLAFLIN accommodates about 120 and SEVERANCE 145 students. CLAFLIN is named in memory of William Claflin, governor of Massachusetts and a member of the original corporate body of the College in 1870, while SEVERANCE bears the name of Elizabeth Severance Prentiss, of the Class of 1887, who was the largest individual donor to the building.

STONE and DAVIS HALLS house about 90 students each. The present Stone Hall was built on the site of old Stone Hall, which was made possible by a bequest from Mrs. Valeria G. Stone. John D. Rockefeller, Jr., made generous contributions toward the present Stone and Davis Halls. Olive Davis, for whom Davis Hall is named, was a member of the Class of 1886 and for many years Director of Residence at Wellesley; upon her death she made Wellesley her residuary legatee.

BATES HALL is named in memory of Katharine Lee Bates, of the Class of 1880, for many years a professor of English literature at Wellesley; FREEMAN HALL in memory of Alice Freeman Palmer, Wellesley's second president; and MCAFEE HALL in honor of Wellesley's seventh president. These dormitories each house about 140 students.

SUMMARY OF STUDENTS

	Resident	*Non-resident*	*Class Totals*	*Totals*
Candidates for the B.A. degree	1,674	33		1,707
Seniors	363	19	382	
Juniors	380	12	392	
Sophomores	459	1	460	
Freshmen	472	1	473	
Candidates for the M.A. degree	12	3		15
Non-candidates for degrees	9	3		12
Total registration October 1963				1,734

Geographical Distribution of Students by Home Address

Alaska	1	Tennessee	25
Alabama	8	Texas	40
Arizona	6	Utah	2
Arkansas	2	Vermont	8
California	59	Virginia	50
Colorado	12	Washington	8
Connecticut	124	West Virginia	4
Delaware	15	Wisconsin	14
District of Columbia	26	Wyoming	1
Florida	21	Canal Zone	2
Georgia	13	Puerto Rico	1
Hawaii	10	Virgin Islands	1
Idaho	2	Argentina	2
Illinois	81	Canada	5
Indiana	22	Colombia	2
Iowa	12	Costa Rica	1
Kansas	9	Denmark	1
Kentucky	13	England	4
Louisiana	7	France	8
Maine	22	Germany	2
Maryland	43	Greece	1
Massachusetts	201	Hong Kong	7
Michigan	47	India	1
Minnesota	18	Italy	1
Mississippi	5	Jamaica	2
Missouri	26	Japan	4
Montana	4	Kenya	1
Nebraska	8	Lebanon	1
Nevada	1	Madagascar	1
New Hampshire	26	Netherland Antilles	1
New Jersey	127	New Zealand	1
New Mexico	5	Norway	2
New York	283	Pakistan	2
North Carolina	12	Peru	1
North Dakota	4	Philippines	2
Ohio	77	South Africa	1
Oklahoma	20	Taiwan	3
Oregon	9	Turkey	3
Pennsylvania	105	Venezuela	1
Rhode Island	23		
South Carolina	5		
South Dakota	3	Total Students	1,734

ALUMNAE INTERESTS

WELLESLEY COLLEGE ALUMNAE ASSOCIATION
BOARD OF DIRECTORS

Mrs. T. Edson Jewell, Jr., *President*
216 Waverley Avenue, Newton 58, Massachusetts

Mrs. Frank B. Jewett, Jr., *First Vice-President*
265 Oenoke Ridge, New Canaan, Connecticut

Mrs. V. A. Van Volkenburgh, *Second Vice-President*
20 Darroch Road, Delmar, New York

Mrs. James M. Kemper, Jr., *Secretary*
6612 Wyoming, Kansas City 13, Missouri

Mrs. Valentine H. Zahn, *Treasurer*
1010 Fifth Avenue, New York 28, New York

Mrs. John A. Baybutt, *Chairman, Campus*
55 Norfolk Road, Chestnut Hill 67, Massachusetts

Mrs. William W. Horstick, *Chairman, Class Officers*
145 Marston Avenue, Eau Claire, Wisconsin

Mrs. John P. Swansen, *Chairman, Class Representatives*
618 Wayland Avenue, Kenilworth, Illinois

Mrs. Clemson N. Page, *Chairman, Clubs*
1714 Sylvan Lane, Gladwyne, Pennsylvania

Mrs. Richard P. Axten, *Chairman, Publications*
96 Abbott Road, Wellesley Hills 81, Massachusetts

Mrs. E. Wilson Lyon, *Senior Alumnae Trustee*
345 North College Avenue, Claremont, California

Mrs. William S. Walker, *Alumnae Executive Secretary*
Wellesley College

Miss Mary C. Lyons, *Editor, Wellesley Alumnae Magazine*
Wellesley College

NATIONAL COMMITTEE OF THE DEVELOPMENT FUND

Mrs. Lewis Rumford, II, *Chairman*
4401 Greenway, Baltimore 18, Maryland

Mrs. John P. Swansen, *Chairman of Class Representatives*
618 Wayland Avenue, Kenilworth, Illinois

Mrs. Clemson N. Page, *Chairman of Clubs*
1714 Sylvan Lane, Gladwyne, Pennsylvania

Mrs. Jeff Montgomery, *Chairman of Geographical Representatives*
2212 Del Monte, Houston 19, Texas

Mrs. Harold F. Reindel,
Forest Way, Essex Fells, New Jersey

Mrs. Frank Seiberling, Jr.,
North Liberty, Iowa

Mrs. Francis J. Wright, *Trustee Member*
317 Stanbery Avenue, Columbus 9, Ohio

and from the College ex officiis the President, the Administrative Vice President, the Director of the Development Fund, and the Director of Publicity.

ACQUAINTANCESHIP CHAIRMEN OF WELLESLEY CLUBS AND ALUMNAE REPRESENTATIVES

Alabama

Birmingham 13, Mrs. Robert I. Norman, Jr., 2964 Green Valley Rd.

Alaska

Anchorage, Mrs. Brandon Wentworth, 204 Fireweed Lane

Arizona

Phoenix 18, Mrs. Robert W. Hinton, 4813 E. Pinchot Ave.
Tucson, Mrs. Everett Czerny, 449 Avenida De Palmas

Arkansas

Little Rock, Mrs. Arthur E. McLean, 1512 Gaines St.

California

Central, Mrs. Alan D. Becker, 135 Locust Ave., San Francisco 18
Mrs. Howard H. Jewel, 67 Camino Don Miguel, Orinda
Mrs. Alexander H. Schilling, 76 Ridgeview Dr., Atherton
Foothill, Mrs. David Copple, 236 S. Dartmouth Ave., Claremont
Los Angeles 49, Mrs. Alfred T. Gilman, 2002 Old Ranch Rd.
Monterey Bay, Mrs. John H. Gratiot, 950 Cass St., Monterey
Pasadena, Mrs. John H. Burt, 540 Woodland Rd.
Sacramento 25, Mrs. John B. Reardan, 800 Columbia Dr.
San Diego, Mrs. Francis Haxo, 6381 Castejon Dr., La Jolla
Santa Barbara, Mrs. John J. Rogers, 2860 East Valley Road, Montecito
South Coast, Mrs. George S. Fenn, 8 Quail Ridge Rd. South, Rolling Hills

Canada

Montreal 16, Mrs. T. J. Wagg, 426 Berwick Ave., Montreal, Quebec
Toronto, Mrs. A. R. Winnett, 57 Cluny Drive, Toronto 5, Ontario

Colorado

Boulder, Mrs. R. J. MacCornack, 830-8th St.
Colorado Springs, Mrs. James H. Donald, 21 Sumner Road
Denver 20, Mrs. Frank J. Brainerd, 1688 Newport St.
Mrs. George Hidy, 1885 South Jersey Way

Connecticut

Fairfield Villages, Mrs. David R. Taylor, 6 Blackberry Lane, Westport
Hartford, Mrs. Thomas C. Blick, 54 Uplands Dr., West Hartford 7

New Haven, Mrs. Philip L. Lunde, 484 Shepard Ave., Hamden 14
Southeastern, Mrs. Guy H. B. Shaffer, Windy Hill Estates, Mystic
Southern, Mrs. Charles H. Watts, Wee Burn Lane, Darien
Mrs. Charles S. Reynolds, Toquam Rd., New Canaan
Waterbury, Mrs. Badger Perrin, R.F.D. 1, Woodbury

DELAWARE

Mrs. Russell Remage, Jr., 201 Beverly Rd., Newark

DISTRICT OF COLUMBIA

Mrs. William A. Plissner, Route 1, Box 121, Beechwood Lane, Springfield, Va.

ENGLAND

Mrs. Michael Lewis, 18 Farm St., London W. 1

FLORIDA

Central Florida, Mrs. Thomas T. Irving, 205 North Eola Dr., Orlando
Ft. Lauderdale, Mrs. George C. Otto, 760 N.E. 70th St., Boca Harbour, Boca Raton
Miami, Mrs. Selden L. Stewart II, 424 Almeria Ave., Coral Gables 34
North Florida, Mrs. Walter F. Rogers, Jr., 4300 Yacht Club Rd., Jacksonville 10
St. Petersburg 4, Miss Mary Anne Lewis, 401 Monterey Blvd. N.E.
Sarasota, Mrs. Patrick H. Jarman, 1323 19th St.

FRANCE

Mme. Louis E. Dupret, 7 rue Georges Ville, Paris, 16e

GEORGIA

Atlanta 5, Mrs. Herbert Elsas, 3510 Paces Ferry Rd., N.W.

HAWAII

Honolulu 15, Mrs. E. Leigh Stevens, 4586 Aukai St.

ILLINOIS

Central, Mrs. Robert Saner, 26 Virginia Lane, R.F.D. #3, Springfield
Champaign-Urbana, Mrs. J. Edward Hulett, Jr., 105 W. Pennsylvania Ave., Urbana
Chicago, Mrs. Robert H. Elkins, 119 N. Grant St., Hinsdale
Mrs. Davis Roenisch, 332 Sheridan Rd., Winnetka
Peoria, Mrs. Thomas W. Jacquin, 318 Hollyridge Circle, Peoria Heights
Rockford, Mrs. L. Baird Rogers, 1534 National Ave.

INDIANA

Bloomington, Mrs. Henry Veatch, Jr., 606 S. Park Ave.
Evansville 11, Mrs. Jack Stone, 201 Fernwood Dr.
Ft. Wayne 6, Mrs. Alan C. Lord, 2236 Wawonaissa Trail
Hammond, Mrs. F. Curtis Smith, 6348 Moraine Ave.
Indianapolis 8, Mrs. James E. Noland, 8979 Pickwick Dr.
Muncie, Mrs. Martin D. Schwartz, 2900 Devon Rd.
South Bend, Mrs. Clifford E. Hoenk, 1538 E. Jefferson Blvd.
Mrs. Frederick H. Ide, 811 Strong Ave., Elkhart
Terre Haute, Mrs. Carl E. Ehrenhardt, 210 Woodridge Dr.
West Lafayette, Mrs. Robert P. Siskind, 321 Forest Hill Dr.

IOWA

Ames, Mrs. Martin J. Ulmer, 2019 Friley Rd.
Cedar Rapids, Mrs. Arthur H. Wulfsberg, 2158 Lincolnshire Dr., S.E.
Des Moines 12, Mrs. Hansel T. Wood, 5717 Waterbury Circle
Sioux City 4, Mrs. Wiley Mayne, 2728 Jackson St.

JAPAN

Tokyo, Mrs. Yukiko Maki, 400-2-Chome, Amanuma, Suginami-ku

KANSAS

Wichita 8, Mrs. Charles W. Black, 1008 North Pershing

KENTUCKY

Louisville 7, Mrs. John A. Laird, 432 Lightfoot Rd.

LOUISIANA

New Orleans 18, Mrs. James A. Churchill, 2101 Calhoun St.

MAINE

Eastern, Mrs. Lawrence M. Cutler, 33 Grove St., Bangor
Western, Mrs. William E. Haggett, 15 North St., Bath

MARYLAND

Baltimore 10, Mrs. Carl E. Wagner, Jr., 7 Harvest Rd.

MASSACHUSETTS

Berkshire County, Mrs. Francis G. Jenkins, Blair Rd., Williamstown
Boston, Mrs. William F. Ray, 215 Warren St., Brookline 46
Miss Emilie J. Stark, 395 Broadway, Cambridge
Cape Cod, Mrs. Sten Carlson, Box 444, Orleans
Fitchburg, Mrs. Malcolm J. Odell, Shirley Center
Haverhill, Mrs. Samuel R. Bailey, 400 Main St., Amesbury
Lowell, Miss Hannah Estelle Moors, 104 Moore St.
Middlesex, Mrs. Salvatore J. Pappalardo, 20 River Bend Dr., South Natick
North Shore, Mrs. Richard J. Gordon, 30 Rose Ave., Marblehead
Southeastern, Mrs. William Rapp, 40 Rotch St., Fairhaven
South Shore, Mrs. William A. White, Jr., 54 Cochato Road, Braintree 84
Springfield 8, Mrs. Malcolm Bick, 109 Piney Woods Ave.
Winchester, Mrs. James Dorsey, 27 Thornberry Rd.
Worcester, Mrs. Stanley W. Norwood, 310 Highland St., Worcester 2

MICHIGAN

Ann Arbor, Mrs. Robert L. Knauss, 1915 Scottwood St.
Birmingham, Mrs. Harvey J. White, 629 Pleasant St.
Detroit, Mrs. Richard S. Night, 553 University Place, Grosse Pointe 30
Grand Rapids, Mrs. Herbert C. Remien, Jr., 2544 Indian Trail, S.E.
Northern, Mrs. Carl G. Miller, 601 East E St., Iron Mountain
Southwestern, Mrs. Albert B. Hodgman, 1546 Grand Ave., Kalamazoo

MINNESOTA

Duluth 12, Mrs. Dwight Hoeg, 2622 East Seventh St.
Minneapolis 24, Mrs. Stanley M. Goldberg, 5121 West 49th St.
St. Paul, Mrs. Leon B. Gladish, Jr., 924 Goodrich Ave.

MISSOURI

Kansas City 13, Mrs. Robert W. Brower, 107 Morningside Dr.
St. Louis, Mrs. Norman B. Champ, Jr., 22 Clermont Lane

NEBRASKA

Omaha 14, Mrs. Alvin Berger, 8669 Cedar St.

NEW HAMPSHIRE

Hampton, Mrs. Wm. W. Treat, 47 Park Ave.

NEW JERSEY

Central, Mrs. George L. Mellor, Jr., 210 Hamilton Ave., Princeton
Englewood, Mrs. John J. Upchurch, III, 80 Adams Ave., Haworth
New Jersey Shore, Mrs. Roger M. Bellows, 27 Wardell Ave., Rumson
Northern, Mrs. E. Alfred Herberich, 834 Standish Ave., Westfield
Ridgewood, Mrs. Carl M. Mueller, 374 Heights Rd.

NEW MEXICO

Albuquerque, Mrs. Robert D. Taichert, 1423 Bryn Mawr Dr., N.E.

NEW YORK

Albany, Mrs. George H. Phelps, 32 Albin Rd., Delmar
Brooklyn, Mrs. Noel Rubinton, 509 East 79th St., New York City
Broome County, Mrs. Herbert Kline, 7 Hawthorne Rd., Binghamton
Buffalo, Mrs. Carl E. Dengler, 98 Monroe Dr., Williamsville 21
Elmira, Mrs. Edmund L. Dana, Jr., 245 Stuart St., Horseheads
Mid-Hudson, Mrs. Phillip Shatz, Stoneleigh Ave., Carmel
Long Island, Mrs. Edward C. Keefer, Old Wheatley Rd., Glen Head, Long Island
New York City 21, Mrs. Charles L. Werts, 239 E. 79th St., Apt. 11-A
Queens, Mrs. Frank Ratner, 166-03 35th St., Flushing 58
Rochester 17, Mrs. Clinton C. Snyder, 80 Oakcrest Dr.
Schenectady 9, Mrs. Richard A. Kasting, 1570 Regent St.
Susquehanna-Chenango, Mrs. Joseph Forsythe, 187 N. Broad St., Norwich
Syracuse, Mrs. Edwin M. Shultes III, 114 Cornwall Dr., De Witt 14
Troy, Mrs. Carl G. Grimm, The Crossway, East Acres
Utica, Mrs. J. Carroll Brown, 144 Proctor Blvd.
Mrs. A. Edward Allen, Jr., 2811 Genesee St.
Westchester, Mrs. M. Joseph de Marinis, 605 East Lincoln Ave., Mt. Vernon
Mrs. J. H. Beardsley, 11 McQueen St., Katonah

NORTH CAROLINA

Central, Mrs. Joseph C. Sloane, Morgan Creek Rd., Chapel Hill
Charlotte 5, Mrs. Lawrence J. Greenia, 6010 Woodbridge Rd.
Western, Mrs. Alfred Taylor, RFD Box 386, Route 6, Asheville

OHIO

Akron, Mrs. Hugh E. Sinclair, Box 603, Hudson
Cincinnati 8, Mrs. Edward H. Page, 3344 Menlo Ave.
Cleveland, Mrs. Joseph Fewsmith, Jr., 2938 Boyce Rd., Shaker Heights 22
Cleveland West Shore, Mrs. Richard I. Kuhn, 17804 Lake Rd., Lakewood 7
Columbus 13, Mrs. David M. Postlewaite, 543 McNaughten Rd.
Dayton 31, Mrs. William H. Austin, Jr., 398 Orinoco St.
Toledo 6, Mrs. Arthur M. Ryan, 3310 Kirkwall Rd.
Youngstown, Mrs. Hugh C. Anderson, 8672 Forest Hill, N.E., Warren

OKLAHOMA

Oklahoma City 16, Mrs. James C. Gibbens, 1204 Tedford Way
Tulsa 5, Mrs. William J. Bovaird, Jr., 3140 East 67th St.

OREGON

Portland 1, Mrs. Wayne Rogers, 2416 S.W. Sherwood Dr.

PENNSYLVANIA

Chambersburg, Mrs. Rodney T. Taylor, 267 Philadelphia Ave.

Harrisburg, Mrs. John A. Morefield Jr., 419 Black Latch Lane R.D. 1, Camp Hill
Lancaster, Mrs. Arthur Hartwell, 613 State St.
Lehigh Valley, Mrs. Charles K. Zug, 1465 N. Main St., Bethlehem
North Central, Miss Mary Louise Taylor, 1022 Woodmont Ave., Williamsport
Northeastern, Mrs. Stanley Davies, R.D. 4, W. Dallas
Philadelphia, Mrs. Robert B. Blum, 1717 Addison St.
Mrs. Robert W. Duncan, 618 Moreno Rd., Penn Valley, Narberth
Pittsburgh 38, Mrs. George F. Huff, Jr., 155 North Dr.
Reading, Mrs. Malcolm H. Foskit, 1205 Monroe Ave., Wyomissing
York, Mrs. Tyree R. Horn, 175 Scarboro Dr.

PERU

Peru, Mrs. Jacques R. Custer, Samanez Ocampo 140, San Isidro, Lima

PUERTO RICO

Mrs. Weldon B. Manwaring, P.O. Box 3232, San Juan

RHODE ISLAND

Providence, Mrs. H. William Koster, 41 Westford Ave., R.F.D. #2, Warwick

SOUTH CAROLINA

Spartanburg, Mrs. Ben Cart, 1050 Partridge Dr.

TENNESSEE

Chattanooga, Mrs. James F. Waterhouse, Fort Stephenson Oval, Lookout Mt.
Memphis 11, Mrs. Duane M. Carr, 2870 Arawata Lane
Nashville 12, Mrs. Bruce S. Hawley, 3907 Trimble Rd.

TEXAS

Austin 64, Mrs. Allen W. Becker, P.O. Box 818, St. Stephen's School
Dallas, Mrs. Thomas P. Kennedy III, 3523 Merrell Rd.
Fort Worth 9, Mrs. Edward C. House, 2524 Stadium Dr.
Houston 19, Mrs. Olive Duncan Hershey, 3865 Chevy Chase Blvd.
San Antonio 9, Mrs. Jonathan Calvert, 216 Retama Place

UTAH

Salt Lake City 17, Mrs. Newell B. Dayton, 2525 Walker's Lane

VERMONT

Wilmington, Mrs. Norman Dalrymple, P.O. Box 457

VIRGINIA

Charlottesville, Mrs. John C. McCoid II, Cornwall Rd., West Leigh, Charlottesville
Richmond 29, Mrs. Ralph F. Thompson, Jr., 8107 University Dr.
Tidewater, Mrs. Arthur Winder, 410 52nd St., Virginia Beach

WASHINGTON

Western, Mrs. John T. Strickland, 9011 Lake Washington Blvd. N.E., Bellevue

WEST VIRGINIA

Southern, Mrs. Howard P. McJunkin, 920 Newton Rd., Charleston 4
Wheeling, Mrs. Edward S. Phillips, Washington Farms, R.F.D. #1

WISCONSIN

Eau Claire, Mrs. William W. Horstick, 145 Marston Ave.
Fox River Valley, Mrs. William C. Nickles, Lakeland College, Rte. 3, Plymouth
Madison 4, Mrs. Raymond Telling, 840 Farwell Dr.
Milwaukee 17, Mrs. Trayton G. Davis, 170 East Lexington Blvd.

INDEX

Academic awards, 28
Academic standards, 27, 117
Administrative officers, 18
Admission
  Foreign students, 114
  Freshman class, 111-115
    Application for, 111-112
    Early Decision Plan, 110
    Examinations for, 110-112
    Requirements, 109
  Graduate students, 114
  Transfer students, 113
Advanced placement and credit, 112-113
Advanced standing, admission to, 114
Advisers of students, 21, 116
Alumnae Association, 132-137
  Acquaintanceship chairmen and alumnae representatives, 133-137
  Board of Directors, 132
Anthropology courses, 99-101
Architecture courses, 36, 38
Art Courses, 35-39
Astronomy courses, 40-41

Bachelor of Arts degree, requirements for, 24-28
Bacteriology courses, 44-46
Biblical History courses, 41-44
Botany courses, 44-47
Buildings, 20, 125-128

Calendar, 6
Chapel Organization, 22
Chemistry courses, 47-49
Classical Archeology major, 49
College community, 20-23
College Entrance Examination Board tests, 111-113
College Government Association, 22
Concentration, field of, 26
Correspondence, names for, 5
Counseling of students, 21, 117
Courses of Instruction, 35-108
Curriculum, 21, 24-34

Degrees
  B.A., requirements for, 24-28
  M.A., requirements for, 33, 34
Development Fund, National Committee of, 133
Distribution of studies, 24-25

Economics courses, 50-52
Education courses, 53-54
Election of courses, 24-28
Employment of students, 118-119
English courses, 55-60
English, standards of written and spoken, 28
Enrollment, 131
Examinations
  Admission, 110-112
  Advanced Placement, 30, and credit, 114
  Course, 29
  Exemption, 29
  General, 27
Exclusion from college, 118
Expenses, 123-124
Extracurricular activities, 22

Faculty, 8
Fees, 123-124
Fellowships and scholarships open to
  Alumnae of any college, 33
  Graduates of Wellesley, 32-33
Financial aid, 119-122
Foreign language
  Corridors, 22, 61, 68, 102
  Requirement, 26-27
Foreign students, admission of, 114
French courses, 60-64
Freshmen
  Admission of, 109-112
  Orientation of, 115

Geography courses, 64-66
Geology courses, 66-68
German courses, 68-70
Government, summer internships in, 30
Graduate students, 33, 34, 114, 124
Graduate study
  Admission to, 114
  Fellowships and scholarships for, 33
  Requirements for, 33-34
Graduation, standard for, 27-28
Greek courses, 70-71

Halls of residence, 20, 116-117, 127-129
Heads of residence halls, 19, 117
Health services, 117-118
History courses, 72-78
Honors in the major subject, 28

Independent work, 28
Infirmary, 117-118
Insurance, 118
Interdepartmental courses, 77-78
Interdepartmental major, 49, 78
Instruction, courses of, 35-108
Italian courses, 78-79

Junior Year Abroad, 30, 31

Latin courses, 80-81
Library, 22, 125-127
Loans, 119-122

Majors, 26
Married students, 117
Master of Arts degree, requirements for, 33, 34
Mathematics courses, 81-83
Music courses, 83-86

Page Laboratory School, 53, 54
Phi Beta Kappa Society, 29
Philosophy courses, 86-88
Physical Education courses, 88-90
Physics courses, 90-92
Physiology courses, 105-108
Placement Office, 118-119
Political Science courses, 92-95
Prizes, 28, 29
Psychology courses, 95-98

Readmission, 113
Refunds, rebates, 123-124
Registration, time of, 6, 115
Regulations, general, 115-122
Religious life, 22
Residence
  Halls of, 20, 117-118, 127-128
  Housework by students, 117
  Rules of, 117
Russian courses, 98-99

Schedule of classes, 35
Scholarships, 119-122
Scholastic Aptitude and Achievement tests, 110-111
Secondary school preparation, 109-110
Self-help, opportunities for, 118-119
Sigma Xi, Society of, 29
Sociology and Anthropology courses, 99-101
Spanish courses, 102-104
Speech courses, 104-105
Sports facilities, 88-89
Student organizations, 22, 23
Students
  Advisers of, 21, 115
  Geographical summary of, 131
  Married, 117
Students' Aid Society, 119, 122
Summer internship in government, 30
Summer vacation, use of, 30

Theatre, 22, 104-105
Trustees, Board of, 7

Vacation house, 116-117
Visitors, 5

Withdrawal, 118, 124

Zoology and Physiology courses, 105-108

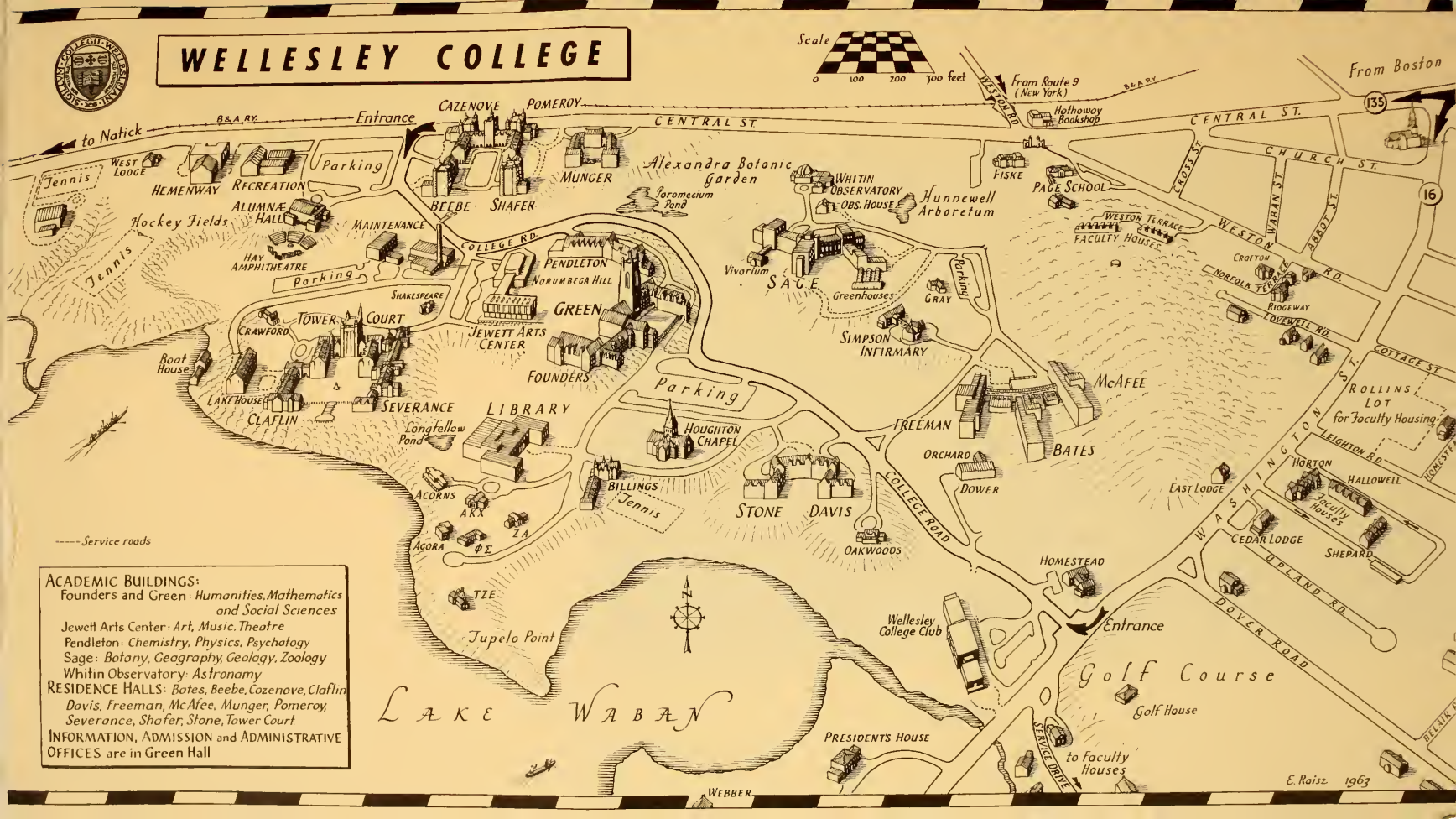
FORMS OF BEQUEST

I give to Wellesley College, a Massachusetts corporation, free and clear of all inheritance taxes, the sum of ..... dollars.

I give to Wellesley College, a Massachusetts corporation, free and clear of all inheritance taxes, the sum of ..... dollars. The principal of this bequest shall be held and may be mingled with other endowment funds of the College for investment purposes. The net income shall be used for [here describe the intended purpose, as, for example, faculty salaries in . . . . ., using general language so that by inadvertence in the choice of words the college will not be prevented from applying the income to the intended purpose in the most efficient way]. If, due to changed circumstances in the future, the Trustees of the College shall determine that all or part of the income cannot be used to the best advantage for the above purpose, then all or any balance of the income not so expended may be used for any educational purpose of the College approved by the said Trustees.

If the bequest is residuary, it should read:

"All the rest, residue and remainder of my real and personal estate, I devise and bequeath to Wellesley College, a Massachusetts corporation," etc.


WELLESLEY COLLEGE
Scale
0 100 200 300 feet
to Natick
B & A RY.
Entrance
CAZENOVE
POMEROY
CENTRAL ST
From Route 9 (New York)
WESTON RD
Hathaway Bookshop
From Boston
135
16
CHURCH ST.
ROSE ST.
WABAN ST.
ABBOT ST.
WESTON RD.
WESTON TERRACE FACULTY HOUSES
CROFTON
NORFOLK TERR.
RIDGEWAY
LOVEWELL RD.
COTTAGE ST.
ROLLINS LOT for Faculty Housing
LEIGHTON RD.
HORTON
HALLOWELL
Faculty Houses
CEDAR LODGE
SHEPARD
UPLAND RD.
DOVER ROAD
WASHINGTON ST.
HOMESTEAD ST.
BELKNAP RD.
Tennis
WEST LODGE
HEMENWAY
RECREATION
Parking
ALUMNÆ HALL
Hockey Fields
Tennis
MAINTENANCE
HAY AMPHITHEATRE
Parking
COLLEGE RD.
BEEBE
SHAFER
MUNGER
Alexandra Botanic Garden
Paramecium Pond
PENDLETON
NORUMBEGA HILL
SHAKESPEARE
GREEN
TOWER COURT
CRAWFORD
JEWETT ARTS CENTER
FOUNDERS
Boat House
LAKE HOUSE
CLAFLIN
SEVERANCE
LIBRARY
Longfellow Pond
Parking
HOUGHTON CHAPEL
Vivarium
SAGE
Greenhouses
Parking
GRAY
WHITIN OBSERVATORY
OBS. HOUSE
Hunnewell Arboretum
SIMPSON INFIRMARY
FISKE
PAGE SCHOOL
McAFEE
FREEMAN
BATES
ORCHARD
DOWER
EAST LODGE
ACORNS
AKX
ΔΓ
ΦΣ
ZA
AGORA
BILLINGS
Tennis
STONE
DAVIS
OAKWOODS
COLLEGE ROAD
HOMESTEAD
TZE
Tupelo Point
Wellesley College Club
Entrance
Golf Course
Golf House
PRESIDENTS HOUSE
SERVICE DRIVE
to Faculty Houses
LAKE WABAN
WEBBER
E. Raisz. 1963
----- Service roads
ACADEMIC BUILDINGS:
Founders and Green: Humanities, Mathematics and Social Sciences
Jewett Arts Center: Art, Music, Theatre
Pendleton: Chemistry, Physics, Psychology
Sage: Botany, Geography, Geology, Zoology
Whitin Observatory: Astronomy
RESIDENCE HALLS: Bates, Beebe, Cazenove, Claflin, Davis, Freeman, McAfee, Munger, Pomeroy, Severance, Shafer, Stone, Tower Court
INFORMATION, ADMISSION and ADMINISTRATIVE OFFICES are in Green Hall